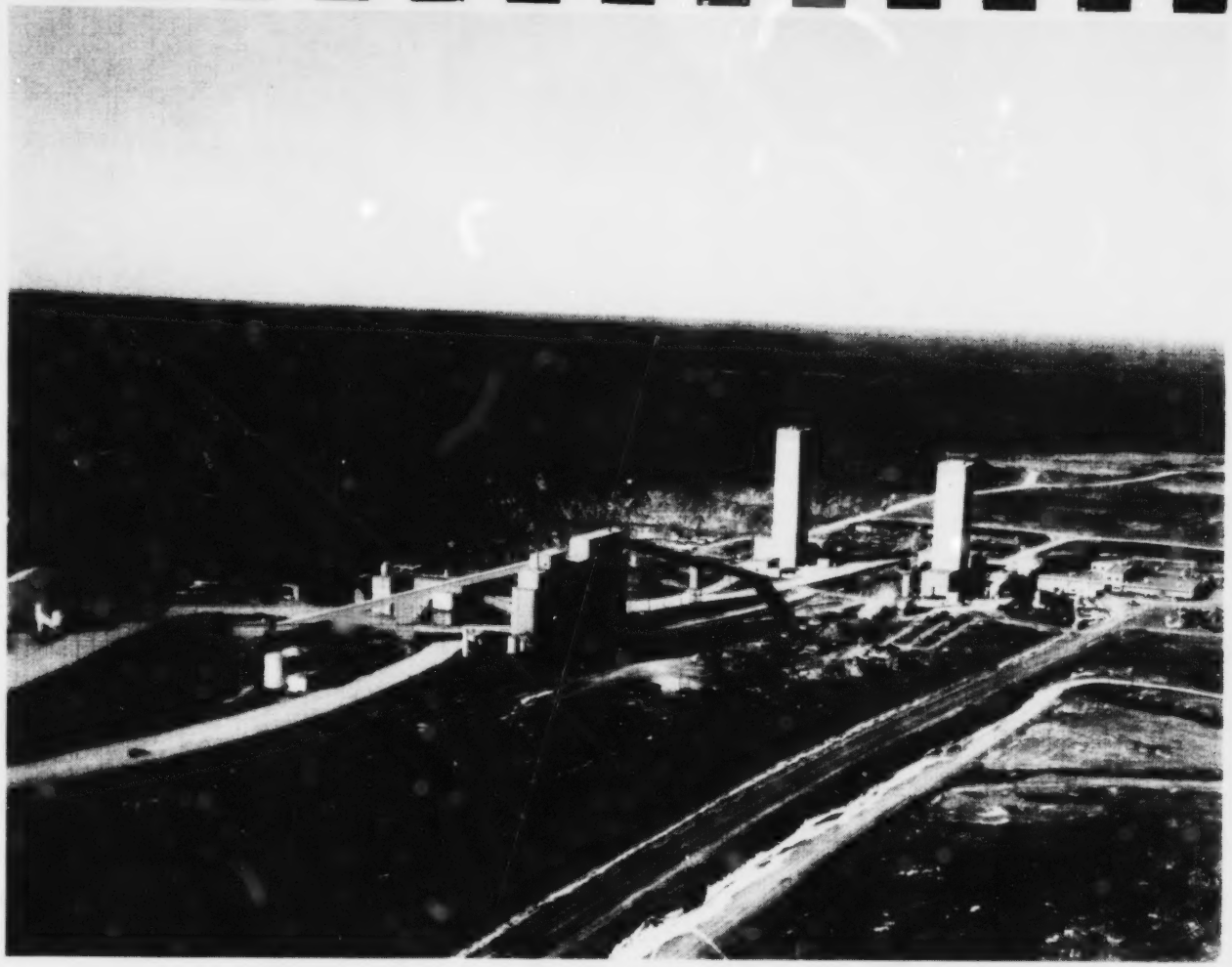

MID - YEAR
MINING STATISTICS
1989

Ontario Ministry of Northern Development and Mines

Hugh P. O'Neil, Minister of Mines

Price: $10.00

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Ministry of Northern Development and Mines

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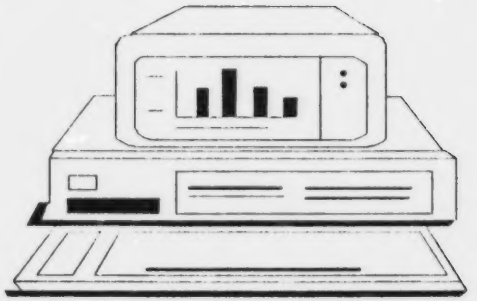

Although the Ontario Ministry of Northern Development and Mines has made every effort to ensure the accuracy of the data appearing in this publication, it cannot assume responsibility for any inaccuracy which may occur.

Should you have any questions or suggestions regarding the MID-YEAR MINING STATISTICS or should you require additional copies please contact:

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INTRODUCTION

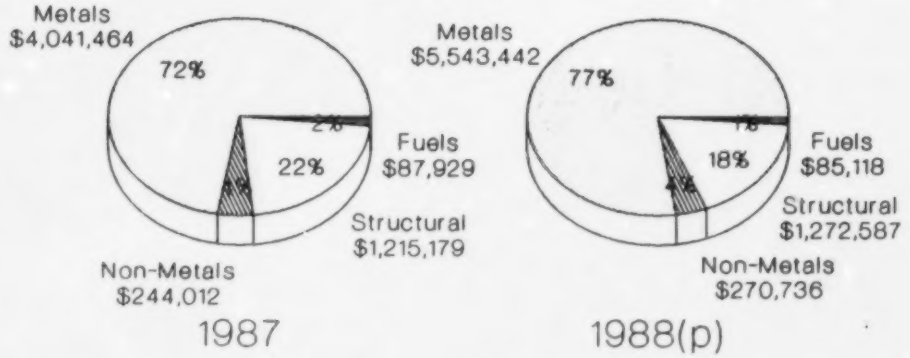
The 1989 edition of the Mid - Year Mining Statistics is based on the result of the Census questionnaire which we send out yearly to mining companies operating in Ontario.

Statistics contained in this publication include mineral production in Ontario, employment in mining, claims, assessment work, exploration and development expenditures and much more valuable information.

The following abbreviations were used wherever applicable:

p	preliminary
KEN.	Kenora Mining Division
PAT.	Patricia Mining Division
R.L.	Red Lake Mining Division
TH.B.	Thunder Bay Mining Division
POR.	Porcupine Mining Division
S.S.M.	Sault Ste. Marie Mining Division
L.L.	Larder Lake Mining Division
SUD.	Sudbury Mining Division
S.O.	Southern Ontario Mining Division
P.W.	Province Wide

Total Mineral Production in Ontario
in Thousands of Current Dollars
1987 and 1988(p)



p - preliminary production
Source:Information & Statistics Section
Ministry of Northern Development & Mines

MAJOR METAL PRODUCTION IN ONTARIO
BY COMMODITY
(PRELIMINARY)

Mineral Commodity	Unit	1988 Jan - June	1989 Jan - June	% Change '89 vs '88 (Jan - June)
Cobalt	kg	1,037,569	1,021,913	-1.51
Copper	Kg	154,912,775	149,885,040	-3.25
Gold	G	29,271,742	37,542,729	28.26
Iron Ore	Tonne	1,444,074	1,799,142	24.59
Nickel	Kg	73,531,524	79,125,806	7.61
Silver	Kg	201,424	174,225	-13.50
Uranium	Kg	2,183,703	2,027,776	-7.14
Zinc	Kg	171,225,533	133,364,043	-22.11

Source: Information and Statistics Section, MNDM

SUMMARY OF METAL PRODUCTION IN ONTARIO BY MINE CLASSIFICATION (PRELIMINARY)

Mine Classification	Mineral Commodity	Unit	1988 Jan - June	1989 Jan - June	% Change 89 vs '88 (Jan - June)
Gold	Gold	G	27,918,872	36,330,407	30.13
	Silver	kg	2,826	3,436	21.59
Silver	Silver	kg	24,165	20,276	-16.09
Nickel	Nickel	Kg	73,531,524	79,125,806	7.61
	Copper	Kg	85,269,357	74,459,339	-12.68
	Cobalt	Kg	1,037,569	1,021,913	-1.51
	Gold	G	811,814	777,532	-4.22
	Silver	Kg	29,950	27,885	-6.89
Zinc-Copper-Lead	Copper	Kg	70,185,880	75,425,701	7.47
	Zinc	Kg	171,225,533	133,364,043	-22.11
	Lead	Kg	n.a.	n.a.	n.a.
	Gold	G	541,056	434,790	-19.64
	Silver	Kg	144,609	122,628	-15.20
	Cadmium	Kg	n.a.	n.a.	n.a.
Uranium	Uranium	Kg	2,183,703	2,027,776	-7.14
Iron	Iron Ore	Tonne	1,444,074	1,799,142	24.59

Source: Information and Statistics Section, MNDM

SUMMARY OF MINING OPERATIONS IN ONTARIO, 1988
(PRELIMINARY)

Name of Company	Mine Classification	Av. No Employees	Ore Mined Tonnes	Ore Milled Tonnes	Development work (1) Metres	Diamond Drilling Metres
American Barrick Res. (Holt-McDermott)	Gold	191	201,270	199,195	4,876	59,184
Ateba Mines Inc. (Tailings Dump)	"	30	-	28,395 *	-	-
Bond Gold Canada Inc. (Golden Patricia Mine)	"	69	27,280	30,525	6,238	11,200
Canamax Resources Inc.	"					
- Bell Creek Mine		80	116,587	122,764	2,529	2,583
- Kremzar Mine		56	52,713	52,713	1,722	6,123
Dickenson Mines Ltd.	"					
- Arthur White Mine		368	235,152	235,152	3,516	25,132
Eastmaque Gold Mines Ltd. (Tailings Project)	"	39	-	426,523 *	-	-
E.R.G. Resources Inc. (Tailings Project)	"	45	-	565,854 *	-	-
Falconbridge Gold Corp. Ltd.	"					
- Hoyle Pond Mine	)	113	83,389	-	1,862	15,694
- Owl Creek	)		185,404	-	712	7,533
- Kidd Creek Gold Mill		17	-	147,638	-	-

SUMMARY OF MINING OPERATIONS IN ONTARIO, 1988
(PRELIMINARY)

Name of Company	Mine Classification	Av. No. Employees	Ore Mined Tonnes	Ore Milled Tonnes	Development work (1) Metres	Diamond Drilling Metres
Giant Yellowknife Mines Ltd. (Timmins Division)	Gold					
- No. 1 Mine	"		622,949	-	3,546	9,037
- No. 1 Mine #3 Pit	"		572,814	-	-	2,142
- No. 1 Mine #4 Pit	"		71,025	-	-	-
- Delnite Pit	"		9,290	-	-	-
- Ross Mine	"	770	196,606	-	999	9,958
- Schumacher Mine	"		95,562	-	2,650	6,536
- Timmins Surface	"		137,747	-	-	-
- No. 1 Mine Concentrator	"		-	934,519	-	-
- Schumacher Mine Concentrator	"		-	734,922	-	-
- Go Mill	"		-	39,780	-	-
Golden Shield Resources Ltd. -Kerr Mine Division	"	377	319,182	350,746 (2)	1,895	19,867
Hemlo Gold Mines Inc. - Golden Giant Mine	"	294	927,100	927,100	4,909	2,850
Lac Minerals Ltd.	"					
- Macassa Div.		312	144,181	170,611 (3)	3,640	23,555
- Page Williams Mine		506	1,541,632	1,541,632	13,819	14,794

SUMMARY OF MINING OPERATIONS IN ONTARIO, 1988
(PRELIMINARY)

Name of Company	Mine Classification	Av. No. Employees	Ore Mined Tonnes	Ore Milled Tonnes	Development work (1) Metres	Diamond Drilling Metres
Lake Asbestos of Canada Ltd.	Gold					
- Aquarius Mine		69	61,505	61,505	1,067	9,987
Mc Bean Mine	"	13	-	39,088 (4)	-	-
Muscocho Explorations Ltd.	"					
- Magino Mine		52	56,071	56,613	4,203	24,162
Noramco Mining Corp.	"					
- Golden Rose Mine		17	49,396	40,138	3,384	10,352
Orofino Resources Ltd.	"					
- Scadding Mine		15	24,000	33,989	-	-
Placer Dome Inc.	"					
- Campbell Red Lake Mine		501	366,656	366,656	4,068	18,723
- Detour Lake Mine		299	659,775	806,568 (5)	1,678	19,918
- Dome Mine		727	1,026,752	1,026,752	3,281	19,882
Renable Gold Mines Ltd.	"	176	203,104	203,104	2,374	-
Teck-Corona Operating Corp.	"					
- David Bell Mine		194	392,556	392,556	2,345	1,500
Total:	Gold	5,330	8,379,698	9,535,038	75,313	320,712

SUMMARY OF MINING OPERATIONS IN ONTARIO, 1988
(PRELIMINARY)

Name of Company	Mine Classification	Av No Employees	Ore Mined Tonnes	Ore Milled Tonnes	Development work (1) Metres	Diamond Drilling Metres
The Adams Mine	Iron	360	3,358,676	3,402,844	O P	-
Algoma Steel Corpn-Algoma Ore Div.	"	332	1,371,708	1,351,694	2,569	-
Sherman Mine	"	351	3,386,674	3,353,149	-	-
Total:	Iron	1,043	8,117,058	8,107,687	2,569	-
Denison Mines Ltd.	Uranium	1,695	2,576,714	2,572,017	30,159	15,334
Rio Algom Ltd.	"					
- Panel Mine		647	975,178	977,672	8,498	3,618
- Stanleigh Mine		532	654,457	651,613	13,124	11,140
- Quirke Mine		1,079	1,524,887	1,524,887	9,200	7,113
Total:	Uranium	3,953	5,731,236	5,726,189	60,981	37,205

O P --- Open Pit

SUMMARY OF MINING OPERATIONS IN ONTARIO, 1988
(PRELIMINARY)

Name of Company	Mine Classification	Av No Employees	Ore Mined Tonnes	Ore Milled Tonnes	Development work (1) Metres	Diamond Drilling Metres
Falconbridge Limited-Kidd Creek Div.	Zinc-Copper-Lead					
- No. 1 Mine	"		3,248,023		8,032	7,696
- No. 2 Mine	"	1,718	977,986	4,300,974	1,825	27,264
Mattabi Mines Ltd.	"	152	333,654	623,025	174	1,135
Minnova Inc.	"					
- Winston Lake Div.		127	211,919	220,326	1,087	-
Noranda Minerals Inc.	"					
- Lyon Lake Div.		130	300,759	(milled at Mattabi)	6,021	22,845
- Geco Div.		499	1,309,799	1,309,799	5,332	20,789
Total:	Zinc-Copper-Lead	2,626	6,382,140	6,454,124	22,471	79,729
Agnico - Eagle Mines Ltd.	Silver					
- Castle Mine	"		4,206		145	3,702
- Langis Mine	"	160	8,218		402	5,116
- Temiskaming Mine	"		21,258		519	5,943
- Penn Mill	"		-	57,948	-	-
Hollens-Eplett Mining Inc.	"	14	2,810	4,615	n.a.	1,311
Total:	Silver	174	36,492	62,563	1,066	16,072

SUMMARY OF MINING OPERATIONS IN ONTARIO, 1988
(PRELIMINARY)

Name of Company	Mine Classification	Av. No. Employees	Ore Mined Tonnes	Ore Milled Tonnes	Development work (1) Metres	Diamond Drilling Metres
Falconbridge Ltd						
- Craig Mine	Nickel (Included Onaping)	155	47,206	-	3,396	31,912
- East Mine		282	182,837	-	405	-
- Fraser Mine		250	790,400	-	1,921	8,628
- Lockerby Mine		(Incl. East)	596,978	-	1,551	2,438
- No. 1 Shaft Open Pit		(Incl East)	239,691	-	-	276
- No. 5 Shaft Crown Pillar		241	9,435	-	408	76
- Onaping Mine		270	294,223	-	908	200
- Strathcona Mine		11	426,136	-	3,651	14,316
- Falconbridge Mill		148	-	68,053	-	-
- Strathcona Mill		638	-	2,523,096	-	-
- All Other Departments			-	-	-	-
Sub total:	Nickel	1,995	2,586,906	2,591,149	12,240	57,846

SUMMARY OF MINING OPERATIONS IN ONTARIO, 1988
(PRELIMINARY)

Name of Company	Mine Classification	Av. No Employees	Ore Mined Tonnes	Ore Milled Tonnes	Development work (1) Metres	Diamond Drilling Metres
Inco Limited - Ontario Division	Nickel					
- Clarabelle Open Pit	)		113,194	-	-	-
- Coleman mine	)		2,400	-	-	-
- C.C. North Mine	)		538,666	-	202	3,023
- C.C. South Mine	)		1,029,466	-	4,990	8,485
- Creighton #3 & #9 Shafts	)		1,696,704	-	9,676	4,267
- Crean Hill Mine	)		486,392	-	2,890	3,499
- Garson Mine	)	5,559	26,071	-	1,113	1,682
- Frood Mine	)		1,581,006	-	2,394	586
- Levack Mine	)		871,576	-	284	2,493
- Little Stobie Mine	)		684,193	-	4,658	2,583
- McCreedy Mine	)		704,672	-	3,687	1,011
- Stobie Mine	)		2,258,208	-	5,464	4,242
- Whistle Mine	)		470,995	-	-	-
- Tam "o" Shanter Open Pit	)		117,976	-	-	-
- Sudbury District Mills (Clarabelle, Copper Cliff and Frood Stobie Mills)	)		-	10,610,390	-	-
Sub total:	Nickel	5,559	10,581,519	10,610,390	35,358	31,871
Total:	Nickel	7,554	13,168,425	13,201,539	47,598	89,717

Note: * Tailings retreated.
(1) Includes Drifting, Crosscutting, Raising & Internal Ramps.
(2) Includes ore from Barber-Larder and Cheminis Projects
(3) Includes tailings from Lakeshore Mine.
(4) Bulk sampling.
(5) Includes stockpiled ore.

Source: Information and Statistics Section, MNDM

SUMMARY OF EMPLOYMENT, 1988
(PRELIMINARY)

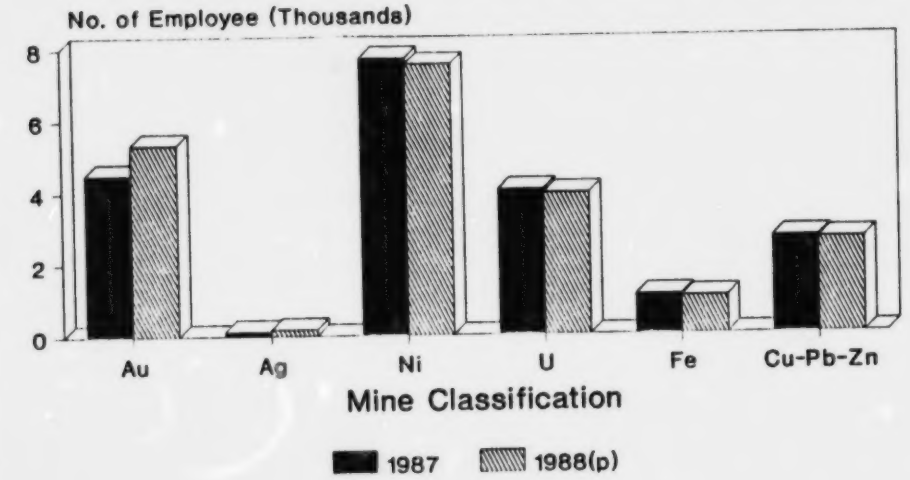
Smelters, Refineries, Metallurgical Works & Acid Plants

Name of Company	No. Employed
Inco Ltd.	
- Smelter Complex	1,024
- Cooper Refinery	534
- Nickel Refinery	526
- Port Colborne Refinery	360
Falconbridge Ltd.	
- Smelter	297
- Kidd Creek Zinc Plant	317
- Kidd Creek Copper Refinery	216
Timminco Metals (Div. of Timminco Ltd.)	370
Dofasco Inc. (Blast Furnaces)	451
Stelco Inc.	
- Hilton Works Blast Furnaces	103
- Lake Erie Works Blast Furnaces	252
Cameco - A Canadian mining & Energy Corporation	
- Port Hope Refinery	347
- Blind River Refinery	162
The Algoma Steel Corp. Ltd. (Iron Making Dept.)	309
Agnico-Eagle Mines Ltd. (Refinery)	14
Total:	5,282

Total Employment in 1988 for Metal & Non-Metal Mines, Mills, Smelters, Refineries, Metallurgical & Acid Plants was 25,962

Source: Information and Statistics Section, MNDM

Summary of Employment
Metal Mines in Ontario
by Mine Classification



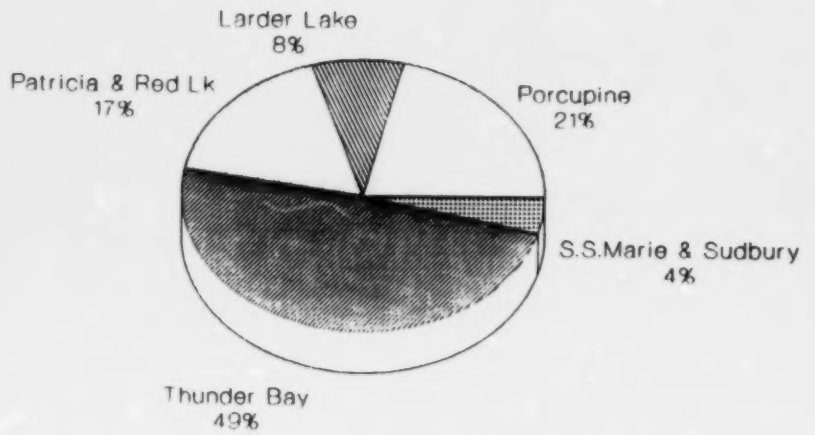
Source:Information & Statistics Section
Ministry of Northern Development & Mines

SUMMARY OF EMPLOYMENT
METAL MINES IN ONTARIO
BY MINE CLASSIFICATION
(PRELIMINARY, 1988)

Mine Classification	1987	1988p	% Change '88 vs '87
Gold	4,494	5,330	18.6
Silver	128	174	35.9
Nickel	7,723	7,554	-2.2
Zinc-Copper-Lead	2,676	2,626	-1.9
Uranium	4,050	3,953	-2.4
Iron	1,091	1,043	-4.4
Total	20,162	20,680	2.6

Source: Information and Statistics Section, MNDM

TOTAL VOLUME OF GOLD PRODUCTION
FROM GOLD MINES IN ONTARIO
JAN. - Sept. 1989



Source: Information & Statistics Section
Ministry of Northern Development & Mines

TOTAL VOLUME OF GOLD PRODUCTION
FROM GOLD MINES IN ONTARIO, 1989
(PRELIMINARY)

	January	February	March	April	May	June	July	August	September	Total Jan -Sept
	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)
Porcupine Div.	1,048,460	1,126,375	1,158,757	1,436,631	1,480,118	1,464,848	1,494,422	1,565,853	1,460,561	12,236,025
Larder Lake Div.	441,576	453,549	566,234	570,876	575,710	533,969	389,011	455,977	690,031	4,676,933
Patricia & Red Lake Div.	884,778	844,917	1,050,680	1,024,476	1,165,823	1,108,295	1,402,210	1,040,650	1,349,489	9,871,318
Thunder Bay Div.	2,915,012	2,296,606	2,675,198	2,892,886	3,013,292	3,906,997	3,079,076	3,571,678	3,449,893	27,800,638
S.S. Marie & Sudbury Div.	256,551	246,610	253,062	233,886	244,881	273,903	314,853	342,320	272,276	2,438,342
Total:	5,546,377	4,968,057	5,703,931	6,158,755	6,479,824	7,288,012	6,679,572	6,976,478	7,222,250	57,023,256

Source: Information and Statistics Section, MNDM

MINE OPENINGS AND CLOSINGS IN ONTARIO
1989/90

Name of Mine	Location	Products	Remarks
Inco Ltd.	Shebandowan	Nickel, Copper	Reopend March/89
Placer Dome Inc. (Dona Lake Mine)	Pickle Lake	Gold	Production March/89
St. Andrew Goldfields Ltd	Stock Twp.	Gold	Production Sept./89
Timmins Nickel Inc. (Redstone Mine)	Timmins	Nickel	Production June/89
Agnico-Eagle Mines Ltd	Cobalt	Silver	Mines closed Jan./89 Mill closed June/89
Dofasco Inc. (Adams Mine)	Kirkland Lake	Iron Ore	Mine to close March/90
Dofasco Inc. (Sherman Mine)	Temagami	Iron Ore	Mine to close March/90
Giant Yellownife Mines Ltd. (Schumacher Mine)	Timmins	Gold	Mine closed May/89
Golden Shield Resources Ltd. (Kerr Mine)	Virginia Town	Gold	Mine closed June/89

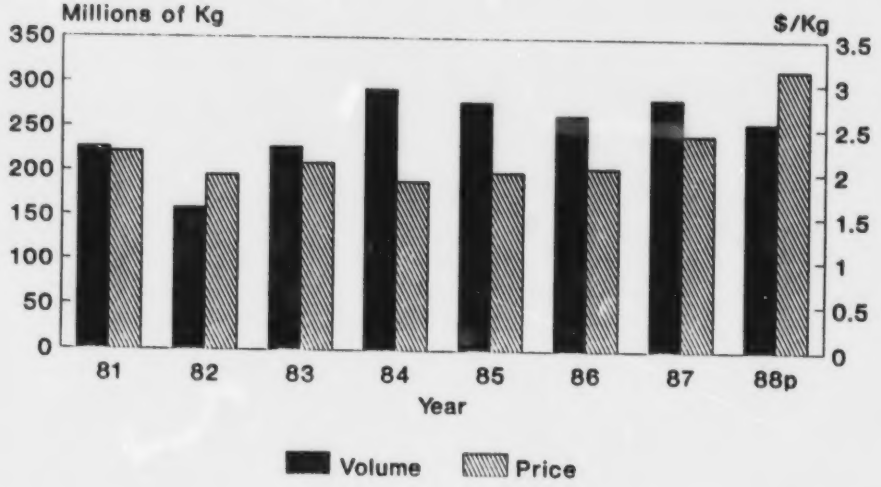
Source: Information and Statistics Section, MNDM

MAJOR METAL PRICES AND EXCHANGE RATE

	Exchange Rate U S Dollar in Canadian Dollars	Canadian Dollars				
		Gold ($/g)	Silver ($/Kg)	Copper ($/Kg)	Nickel ($/Kg)	Zinc ($/Kg)
1988						
January	1.2853	19.69	287.77	3.63	10.38	1.31
February	1.2679	18.02	266.81	3.07	10.99	1.31
March	1.2490	17.79	265.88	3.00	23.52	1.39
April	1.2351	17.93	266.09	2.79	22.25	1.53
May	1.2369	17.94	269.31	2.84	21.06	1.53
June	1.2174	17.66	286.03	3.06	18.98	1.72
July	1.2073	16.99	250.77	2.76	17.61	1.72
August	1.2243	16.98	273.54	2.73	17.37	1.72
September	1.2265	16.30	260.30	3.14	14.57	1.87
October	1.2052	15.76	252.38	3.68	13.93	1.92
November	1.2174	16.44	251.81	4.08	16.24	1.93
December	1.1960	16.10	243.74	4.24	20.24	1.98
1989						
January	1.1914	15.48	237.29	3.47	21.12	2.14
February	1.1890	14.81	234.08	3.07	22.02	2.20
March	1.1953	14.99	235.70	3.26	20.51	2.49
April	1.1886	14.63	229.54	3.12	17.71	2.29
May	1.1927	14.23	217.20	2.77	16.05	2.23
June	1.1984	14.16	210.92	2.41	14.55	2.14
July	1.1888	14.33	200.75	2.47	14.59	2.12
August	1.1754	13.80	196.51	2.79	15.17	2.17

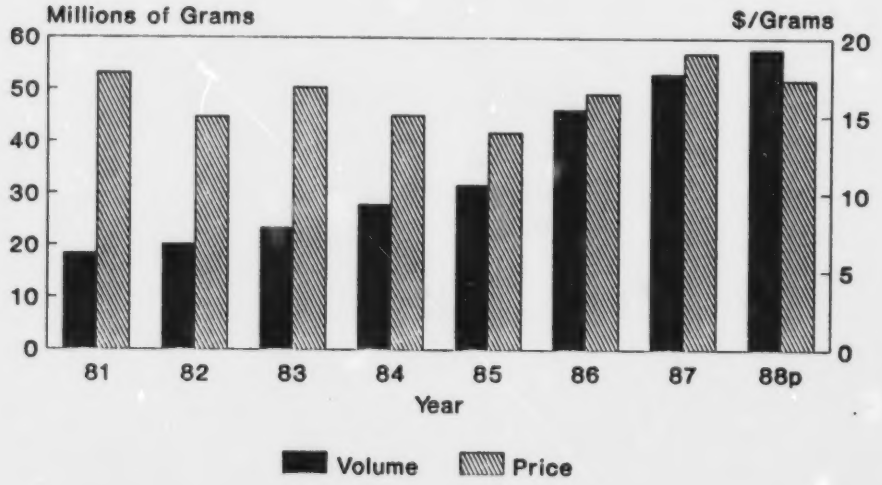
Source: Energy Mines and Resources, Canada

Ontario Copper Production and
Copper Price in Canadian Dollars
1981 - 1988p



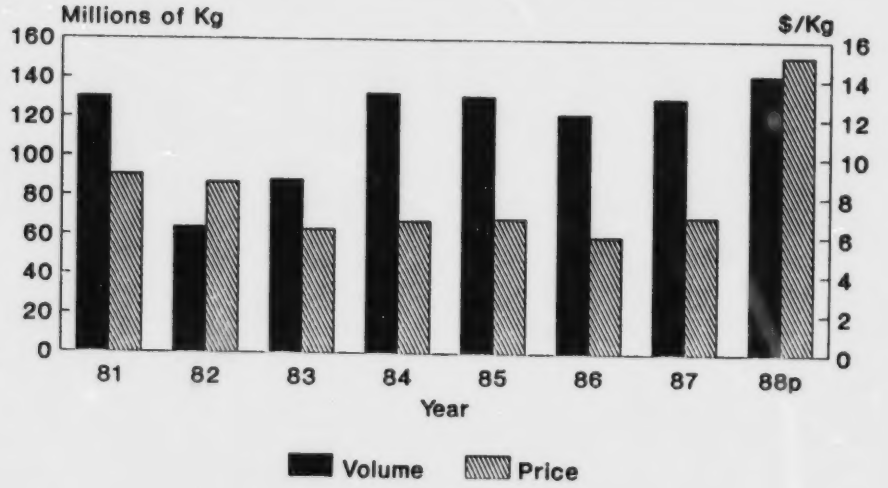
Source:Information & Statistics Section
Ministry of Northern Development & Mines

Ontario Gold Production and
Gold Price in Canadian Dollars
1981 - 1988p



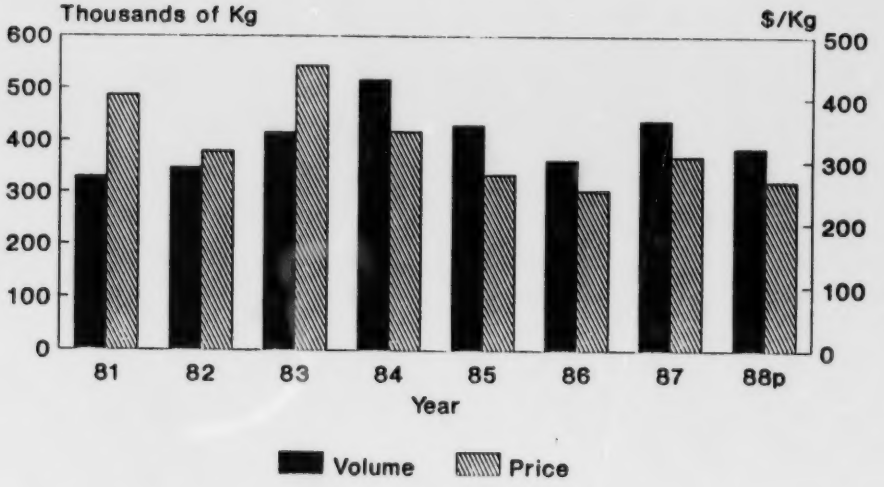
Source:Information & Statistics Section
Ministry of Northern Development & Mines

Ontario Nickel Production and
Nickel Price in Canadian Dollars
1981 - 1988p



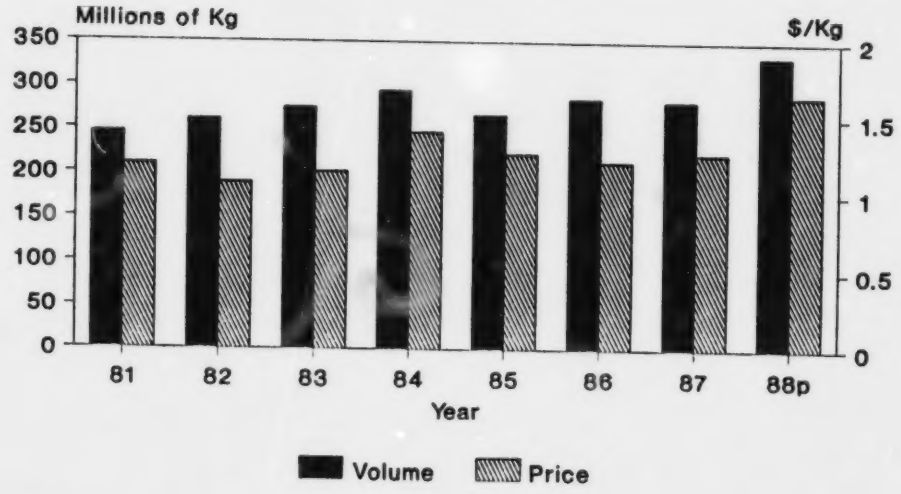
Source:Information & Statistics Section
Ministry of Northern Development & Mines

Ontario Silver Production and Silver Price in Canadian Dollars 1981 - 1988p



Source:Information & Statistics Section
Ministry of Northern Development & Mines

Ontario Zinc Production and
Zinc Price in Canadian Dollars
1981 - 1988p



Source:Information & Statistics Section
Ministry of Northern Development & Mines

Prospector shaping a claim post.

CLAIMS REPORT
FROM
ONTARIO MINING RECORDERS' OFFICES, 1989

	January			February			March			April			May		
	recorded	cancelled	re-instated	recorded	cancelled	re-instated	recorded	cancelled	re-instated	recorded	cancelled	re-instated	recorded	cancelled	re-instated
Northwest Region															
Kenora	269	208	2	315	174	33	95	197	0	306	220	51	686	250	4
Patricia	145	112	2	212	109	22	116	305	1	133	412	4	99	370	1
Red Lake	65	307	0	363	0	0	93	141	0	53	1	0	449	23	0
Thunder Bay	318	1,107	110	693	616	62	1,033	494	18	1,245	746	5	383	979	137
Total	797	1,734	114	1,583	899	117	1,337	1,137	19	1,737	1,379	60	1,617	1,622	142
Northeast Region															
Larder Lake	215	708	39	201	423	52	628	500	8	400	155	1	172	828	1
Porcupine	225	759	52	571	219	39	686	827	64	882	0	1	225	1,543	0
Sault Ste. Marie	85	226	4	47	6	0	25	90	39	89	425	108	141	343	17
Sudbury	58	9	0	7	3	0	38	72	0	11	654	11	46	7	0
Total	583	1,702	95	826	651	91	1,377	1,489	111	1,382	1,234	121	584	2,721	18
Southern Region															
Southern Ontario	88	5	6	16	0	0	67	126	0	96	10	0	32	219	0
Total	88	5	6	16	0	0	67	126	0	96	10	0	32	219	0
TOTAL REGIONS:	1,468	3,441	215	2,425	1,550	208	2,781	2,752	130	3,215	2,623	181	2,233	4,562	160

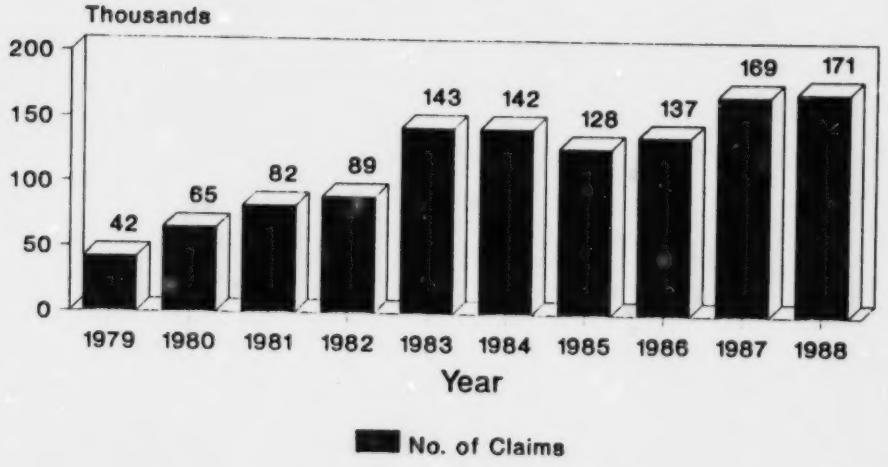
Source: Information and Statistics Section, MNDM

CLAIMS REPORT
FROM
ONTARIO MINING RECORDERS' OFFICES, 1989

	June			July			August			September			October		
	recorded	cancelled	re-instated	recorded	cancelled	re-instated	recorded	cancelled	re-instated	recorded	cancelled	re-instated	recorded	cancelled	re-instated
Northwest Region															
Kenora	272	220	0	296	97	0	176	182	7	169	254	0	136	1,144	0
Patricia	96	108	0	414	477	0	187	675	263	81	351	15	25	347	11
Red Lake	52	883	0	67	105	0	281	74	20	50	13	18	94	1	0
Thunder Bay	754	357	3	401	2,404	0	688	652	92	519	490	37	213	664	3
Total	1,174	1,568	3	1,178	3,083	0	1,332	1,583	382	819	1,108	70	468	2,156	14
Northeast Region															
Larder Lake	138	799	0	355	729	14	331	704	43	292	77	20	377	24	0
Porcupine	339	112	0	277	1	0	224	4,606	5	275	71	22	197	270	19
Sault Ste. Marie	316	517	225	46	690	2	96	230	3	24	429	101	173	325	16
Sudbury	63	1	0	356	4	0	43	498	0	35	4	8	30	98	1
Total	856	1,429	225	1,034	1,424	16	694	6,038	51	626	581	151	777	717	36
Southern Region															
Southern Ontario	49	80	1	11	7	6	79	184	1	44	0	0	61	45	0
Total	49	80	1	11	7	6	79	184	1	44	0	0	61	45	0
TOTAL REGIONS:	2,079	3,077	229	2,223	4,514	22	2,105	7,805	434	1,489	1,689	221	1,306	2,918	50

Source: Information and Statistics Section, MNDM

Mining Claims in Good Standing in Ontario 1979-1988

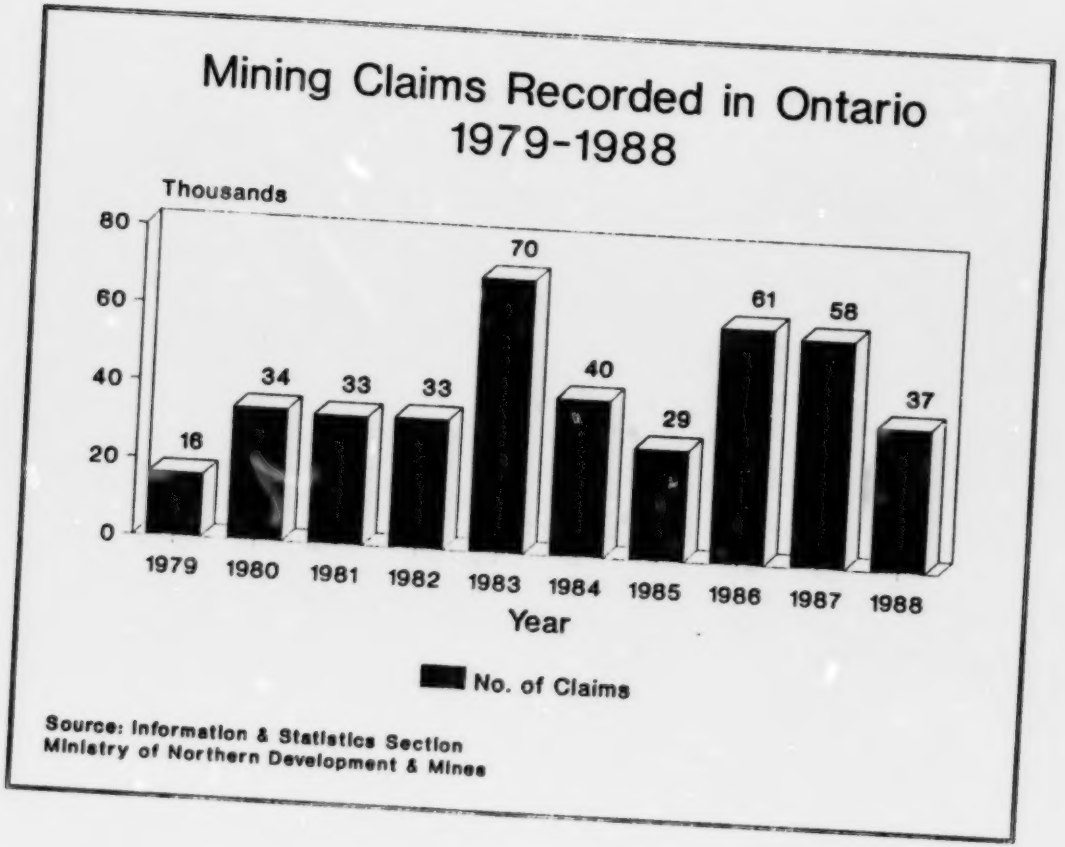


Source:Information & Statistics Section
Ministry of Northern Development & Mines

MINING CLAIMS IN GOOD STANDING
IN ONTARIO
BY MINING DIVISIONS
1979 - 1988

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Northwest Region										
Kenora	2,119	3,208	4,076	4,046	13,637	13,854	10,875	9,863	12,496	12,694
Patricia	4,899	7,068	8,303	7,737	10,319	10,625	9,051	13,913	18,786	18,855
Red Lake	3,189	4,301	4,889	3,922	5,130	7,799	8,212	10,427	11,017	10,935
Thunder Bay	7,554	11,245	13,663	19,349	33,721	34,904	29,285	32,097	41,568	41,994
Total	17,761	25,822	30,931	35,054	62,807	67,182	57,423	66,300	83,867	84,478
Northeast Region										
Larder Lake	8,157	12,622	15,423	13,458	17,946	21,397	23,974	24,163	27,146	26,240
Porcupine	9,597	18,753	24,731	23,694	30,586	27,179	23,207	33,181	34,474	33,337
Sault Ste. Marie	2,270	2,465	3,109	11,704	25,695	20,839	17,496	7,185	12,172	17,138
Sudbury	2,430	3,569	6,116	4,182	4,439	4,508	4,358	4,396	9,358	7,821
Total	22,454	37,409	49,379	53,038	78,666	73,923	69,035	68,925	83,150	84,536
Southern Region										
Southern Ontario	1,888	1,699	1,531	1,115	1,157	1,254	1,312	1,579	1,641	2,255
Total	1,888	1,699	1,531	1,115	1,157	1,254	1,312	1,579	1,641	2,255
Total All Regions:	42,103	64,930	81,841	89,207	142,630	142,359	127,770	136,804	168,658	171,269

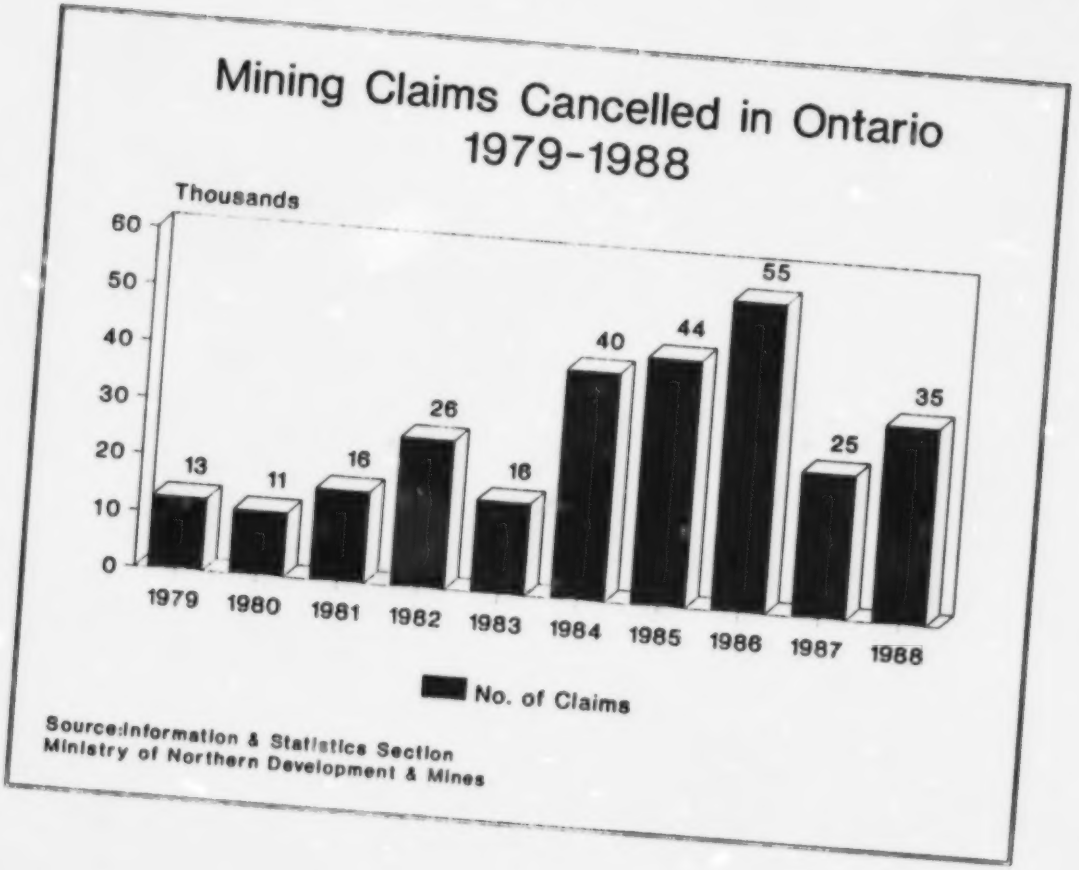
Source: Information and Statistics Section, MNDM


Mining Claims Recorded in Ontario
1979-1988
Thousands
80
60
40
20
0
16
34
33
33
70
40
29
61
58
37
1979
1980
1981
1982
1983
1984
1985
1986
1987
1988
Year
No. of Claims
Source: Information & Statistics Section
Ministry of Northern Development & Mines

MINING CLAIMS RECORDED
IN ONTARIO
BY MINING DIVISIONS
1979 - 1988

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Northwest Region										
Kenora	984	1,877	2,121	1,579	11,061	3,261	2,216	4,041	5,211	3,358
Patricia	1,012	3,485	2,861	842	4,395	5,009	2,513	7,815	5,540	2,400
Red Lake	1,065	2,220	1,719	942	2,413	4 344	2,673	3,803	4,512	2,286
Thunder Bay	3,099	5,527	6,844	10,252	15,835	8,389	4,353	15,959	16,269	10,548
Total	6,160	13,109	13,545	13,615	33,704	21,003	11,755	31,618	31,532	18,592
Northeast Region										
Larder Lake	4,261	6,299	5,498	3,253	8,354	7,943	7,588	6,973	6,742	3,885
Porcupine	3,975	10,742	8,934	5,420	11,859	7,633	6,052	17,889	8,934	6,252
Sault Ste. Marie	542	1,254	1,474	10,027	14,745	1,786	1,645	2,149	4,880	6,131
Sudbury	694	1,948	3,087	671	1,261	1,451	1,079	1,191	5,777	893
Total	9,472	20,243	18,993	19,371	36,219	18,813	16,364	28,202	26,333	17,161
Southern Region										
Southern Ontario	539	548	485	354	391	555	457	744	619	982
Total	539	548	485	354	391	555	457	744	619	982
Total All Regions:	16,171	33,900	33,023	33,340	70,314	40,371	28,576	60,564	58,484	36,735

Source: Information and Statistics Section, MNDM


Mining Claims Cancelled in Ontario
1979-1988
Thousands
60
50
40
30
20
10
0
13
11
16
26
16
40
44
55
25
35
1979
1980
1981
1982
1983
1984
1985
1986
1987
1988
No. of Claims
Source:Information & Statistics Section
Ministry of Northern Development & Mines

MINING CLAIMS CANCELLED
IN ONTARIO
BY MINING DIVISIONS
1979 - 1988

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Northwest Region										
Kenora	1,357	788	846	1,609	1,472	3,042	5,195	5,054	2,578	2,812
Patricia	1,061	1,391	1,582	1,766	1,164	4,074	3,972	3,046	1,918	2,424
Red Lake	1,763	1,115	1,249	1,984	1,204	1,725	2,260	1,598	1,702	2,368
Thunder Bay	2,139	1,836	4,426	4,613	1,537	7,206	10,222	13,900	7,712	10,796
Total	6,320	5,130	8,103	9,872	5,377	16,047	21,649	23,598	13,910	18,400
Northeast Region										
Larder Lake	1,452	1,834	2,697	5,218	3,866	4,492	5,011	6,787	3,854	4,814
Porcupine	2,504	1,778	2,956	6,457	4,967	11,040	10,024	8,689	4,402	7,722
Sault Ste. Marie	905	1,059	830	1,432	754	6,642	5,229	13,883	2,030	1,665
Sudbury	720	737	650	2,577	805	1,520	1,297	1,171	720	1,780
Total	5,581	5,408	7,133	15,684	10,392	23,694	21,561	30,530	11,006	15,981
Southern Region										
Southern Ontario	805	721	758	617	377	498	360	426	526	404
Total	805	721	758	617	377	498	360	426	526	404
Total All Regions:	12,706	11,259	15,994	26,173	16,146	40,239	43,570	54,554	25,442	34,785

Source: Information and Statistics Section, MNDM

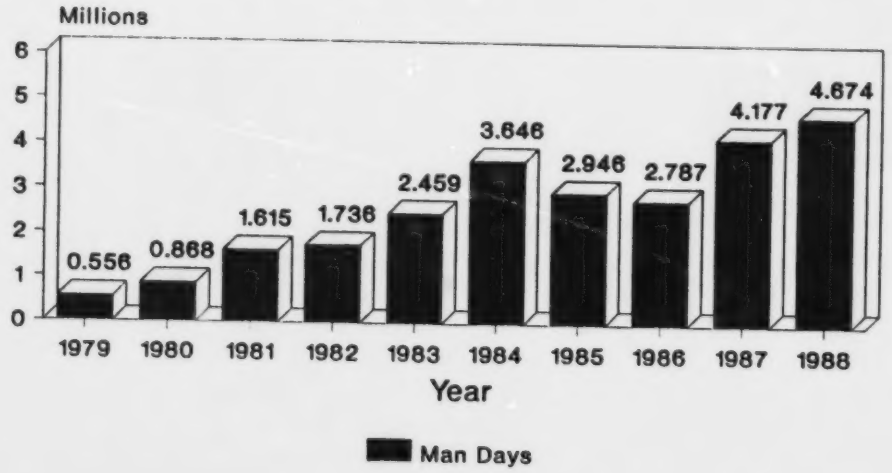
A claim post - It is the common corner between two claims.

ASSESSMENT WORK REPORT (IN DAYS)
FROM
ONTARIO MINING RECORDERS' OFFICES, 1989

	Jan.	Feb.	Mar.	Apr.	May	Jun.	July	Aug.	Sept.	Oct.
Northwest Region										
Kenora	15,418	22,191	10,555	21,527	15,650	10,580	26,590	36,584	5,454	21,051
Patricia	37,073	62,678	77,489	16,326	24,763	3,722	47,254	18,907	8,330	22,787
Red Lake	4,123	19,281	21,957	15,620	22,566	12,593	12,430	2,251	563	7,909
Thunder Bay	41,989	90,282	157,475	47,704	46,964	32,745	174,350	23,396	24,320	28,565
Total	98,603	194,432	267,476	101,177	109,943	59,640	260,624	81,138	38,667	80,312
Northeast Region										
Larder Lake	41,875	14,568	35,552	30,266	67,194	31,134	6,305	34,581	890	24,815
Porcupine	28,417	44,426	76,273	32,625	86,649	16,265	16,696	19,217	43,946	66,208
Sault Ste. Marie	59,329	36,678	39,213	25,210	42,288	27,023	33,768	6,515	10,704	25,147
Sudbury	8,767	10,865	3,585	41,639	8,617	356	310	4,799	4,735	4,400
Total	138,388	106,537	154,623	129,740	204,748	74,778	57,079	65,112	60,275	120,570
Southern Region										
Southern Ontario	7,257	4,914	6,531	3,524	226	5,137	1,112	2,042	2,690	537
Total	7,257	4,914	6,531	3,524	226	5,137	1,112	2,042	2,690	537
TOTAL REGIONS:	244,248	305,883	428,630	234,441	314,917	139,555	318,815	148,292	101,632	201,419

Source: Information and Statistics Section, MNDM

Assessment Work Recorded in Ontario
1979-1988
(in days)

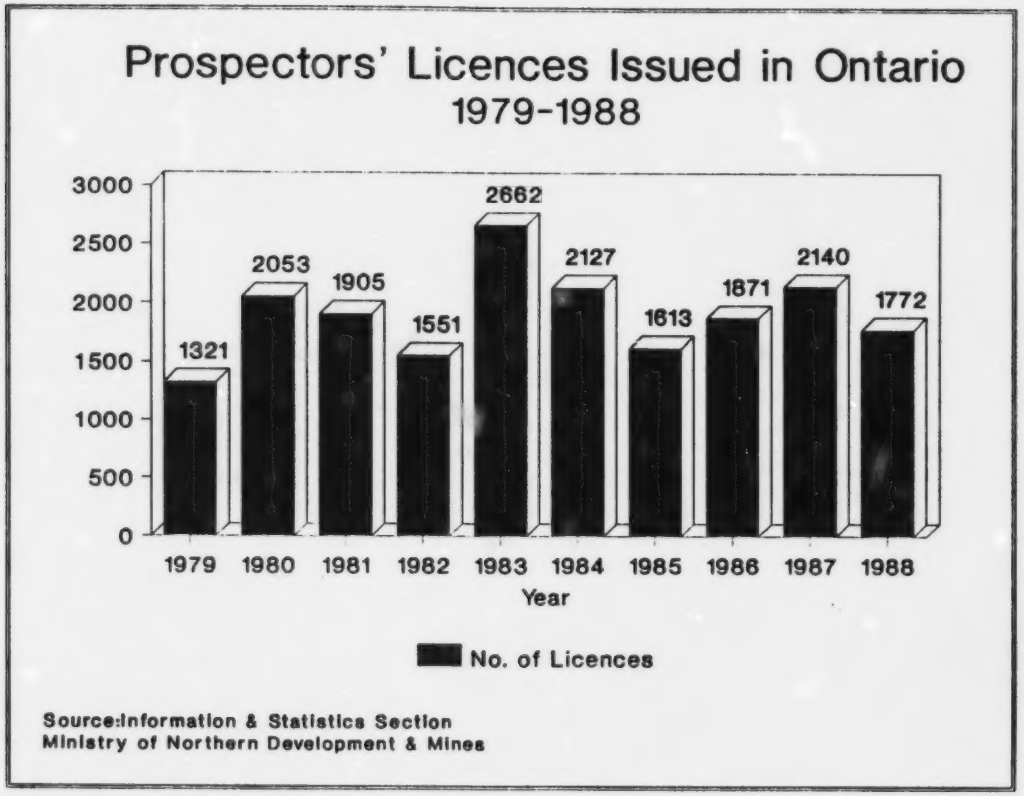


Source:Information & Statistics Section
Ministry of Northern Development & Mines

ASSESSMENT WORK RECORDED (IN DAYS)
IN ONTARIO
BY MINING DIVISIONS
1979 - 1988

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Northwest Region										
Kenora	24,167	21,368	72,732	68,438	106,397	364,692	293,600	142,645	276,662	443,544
Patricia	61,249	71,696	287,636	167,359	197,223	205,214	287,468	429,480	691,582	556,155
Red Lake	62,949	71,975	106,872	118,775	53,207	128,664	270,636	189,633	261,741	457,501
Thunder Bay	101,799	127,288	280,765	292,273	664,891	922,978	791,627	462,772	1,070,214	1,116,340
Total	250,164	292,327	748,005	646,845	1,021,718	1,621,548	1,643,331	1,224,530	2,300,199	2,573,540
Northeast Region										
Larder Lake	68,672	209,358	247,087	313,690	304,770	473,820	460,403	631,040	600,222	654,132
Porcupine	151,003	296,852	471,827	596,097	407,161	738,038	503,338	717,522	807,277	573,160
Sault Ste. Marie	28,429	15,420	43,873	81,755	664,670	692,181	219,207	131,163	350,321	513,862
Sudbury	19,336	22,897	79,774	70,123	41,691	83,045	94,541	49,820	77,041	304,792
Total	267,440	544,527	842,561	1,061,665	1,418,292	1,987,084	1,277,489	1,529,545	1,834,861	2,045,946
Southern Region										
Southern Ontario	38,428	30,719	24,617	27,326	19,324	37,536	25,398	32,599	42,337	54,359
Total	38,428	30,719	24,617	27,326	19,324	37,536	25,398	32,599	42,337	54,359
Total All Regions:	556,032	867,573	1,615,183	1,735,836	2,459,334	3,646,168	2,946,218	2,786,674	4,177,397	4,673,845

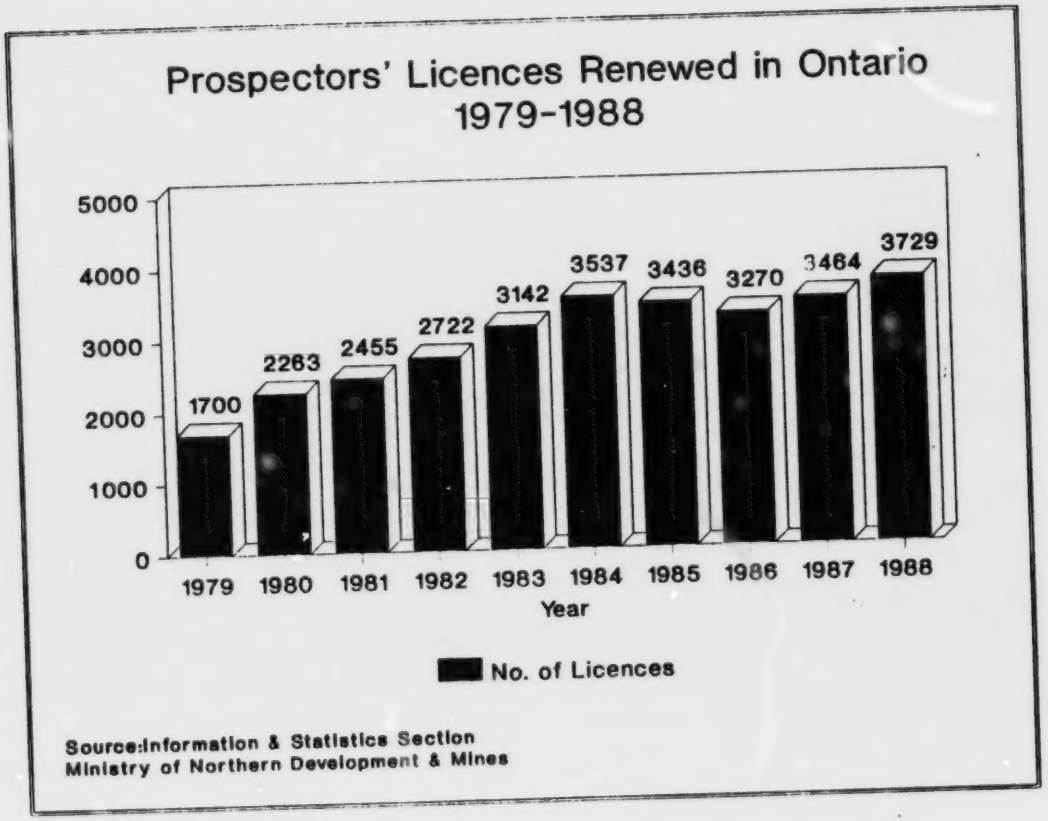
Source: Information and Statistics Section, MNDM


Prospectors' Licences Issued in Ontario
1979-1988
3000
2500
2000
1500
1000
500
0
1321
2053
1905
1551
2662
2127
1613
1871
2140
1772
1979
1980
1981
1982
1983
1984
1985
1986
1987
1988
Year
No. of Licences
Source:Information & Statistics Section
Ministry of Northern Development & Mines

PROSPECTORS' LICENCES ISSUED
IN ONTARIO
BY MINING DIVISIONS
1979 - 1988

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Northwest Region										
Kenora	48	89	83	64	205	129	93	72	94	85
Patricia	33	49	72	34	67	67	38	58	64	45
Red Lake	41	62	64	50	47	59	67	53	95	59
Thunder Bay	155	291	263	188	425	332	251	377	438	445
Total	277	491	482	336	744	587	449	560	691	634
Northeast Region										
Larder Lake	220	271	244	185	214	208	157	213	226	183
Porcupine	172	273	271	216	311	269	219	254	249	196
Sault Ste. Marie	64	101	67	64	172	98	66	72	75	79
Sudbury	120	180	202	178	252	234	188	209	256	191
Total	576	825	784	643	949	809	630	748	806	649
Southern Region										
Southern Ontario	468	737	639	572	969	731	534	563	643	489
Total	468	737	639	572	969	731	534	563	643	489
Total All Regions:	1,321	2,053	1,905	1,551	2,662	2,127	1,613	1,871	2,140	1,772

Source: Information and Statistics Section, MNDM

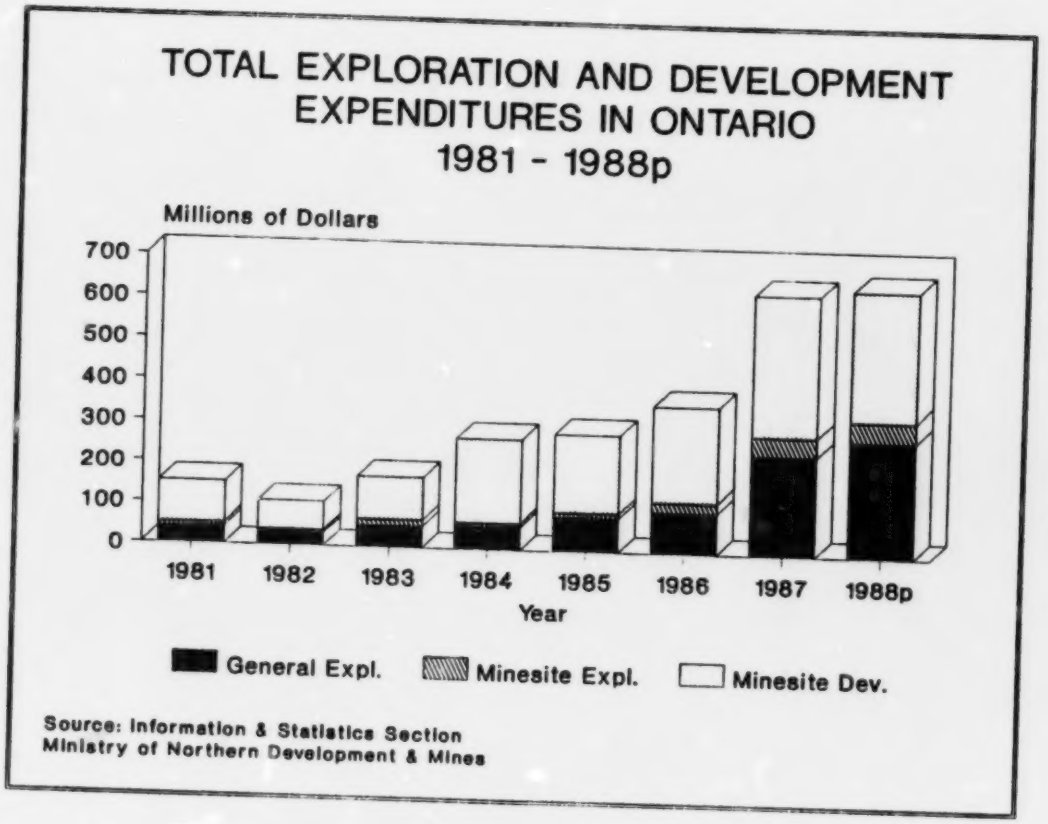

Prospectors' Licences Renewed in Ontario
1979-1988
5000
4000
3000
2000
1000
0
1700
2263
2455
2722
3142
3537
3436
3270
3464
3729
1979
1980
1981
1982
1983
1984
1985
1986
1987
1988
Year
No. of Licences
Source:Information & Statistics Section
Ministry of Northern Development & Mines

PROSPECTORS' LICENCES RENEWED
IN ONTARIO
BY MINING DIVISIONS
1979 - 1988

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Northwest Region										
Kenora	52	54	83	78	107	132	123	113	139	141
Patricia	40	49	47	37	63	56	58	88	65	78
Red Lake	60	75	96	83	76	87	65	66	67	80
Thunder Bay	200	283	231	356	316	451	393	466	517	562
Total	352	461	457	554	562	726	639	733	788	861
Northeast Region										
Larder Lake	201	275	295	303	375	352	335	303	303	275
Porcupine	195	268	308	307	343	393	355	355	402	452
Sault Ste. Marie	68	80	91	87	210	118	136	103	95	141
Sudbury	143	168	189	241	238	252	240	225	303	308
Total	607	791	883	938	1,166	1,115	1,066	986	1,103	1,176
Southern Region										
Southern Ontario	741	1,011	1,115	1,230	1,414	1,696	1,731	1,951	1,573	1,692
Total	741	1,011	1,115	1,230	1,414	1,696	1,731	1,551	1,573	1,692
Total All Regions:	1,700	2,263	2,455	2,722	3,142	3,537	3,436	3,270	3,464	3,729

Source: Information and Statistics Section, MNDM

To ensure a safe working environment; rock bolts are secured in this workplace.

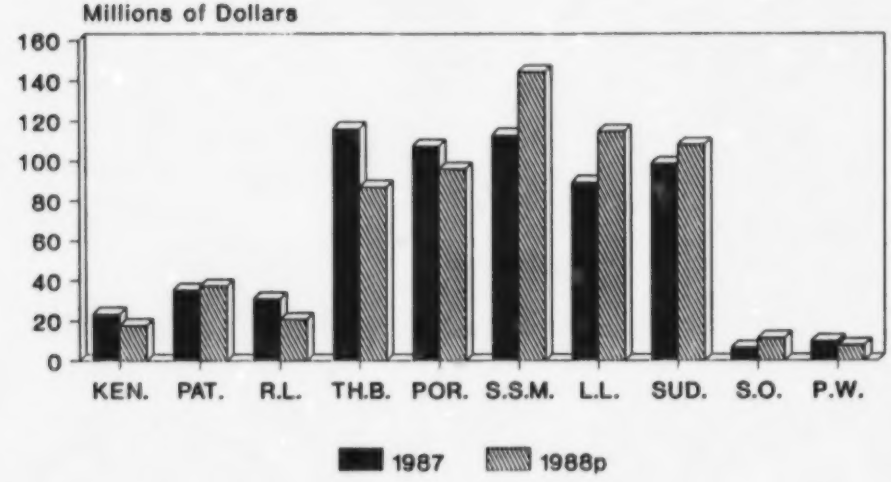

TOTAL EXPLORATION AND DEVELOPMENT EXPENDITURES IN ONTARIO
1981 - 1988p
Millions of Dollars
700
600
500
400
300
200
100
0
1981
1982
1983
1984
1985
1986
1987
1988p
Year
General Expl.
Minesite Expl.
Minesite Dev.
Source: Information & Statistics Section
Ministry of Northern Development & Mines

TOTAL EXPLORATION AND DEVELOPMENT
EXPENDITURES IN ONTARIO
(IN CURRENT DOLLARS)
1981 - 1988p

	TOTAL	GENERAL EXPLORATION	MINESITE EXPLORATION	MINESITE DEVELOPMENT
	($)	($)	($)	($)
1988p	646,174,433	282,299,983	49,917,156	313,957,294
1987	631,779,488	243,781,599	45,937,175	342,060,714
1986	357,913,442	99,479,944	24,385,587	234,047,911
1985	285,514,464	82,379,194	11,917,683	191,217,587
1984	270,282,158	55,872,952	9,312,938	205,096,268
1983	171,384,988	52,434,213	14,692,989	104,257,786
1982	106,390,043	31,227,498	7,141,352	68,021,193
1981	152,010,941	41,923,880	9,191,238	100,895,823

Source: Information and Statistics Section, MNDM

TOTAL EXPLORATION AND DEVELOPMENT EXPENDITURES IN ONTARIO BY MINING DIVISION



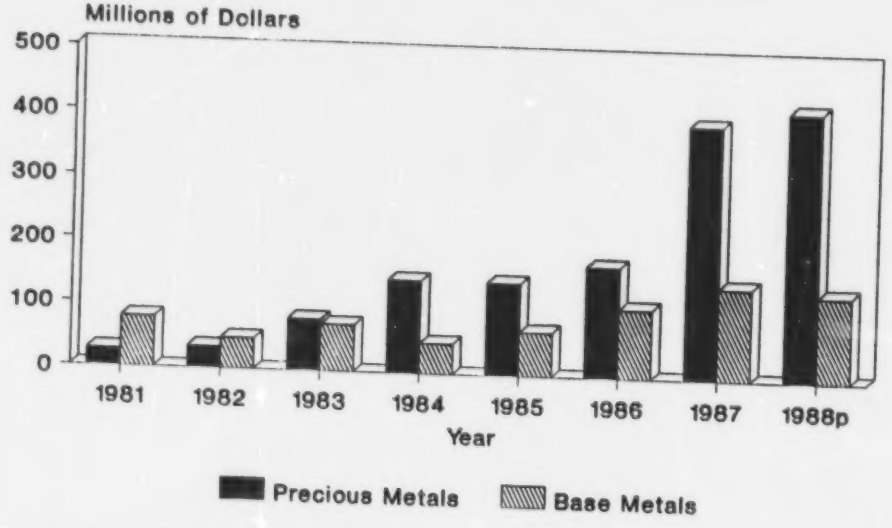
Source: Information & Statistics Section
Ministry of Northern Development & Mines

TOTAL EXPLORATION AND DEVELOPMENT
EXPENDITURES IN ONTARIO
BY MINING DIVISION
1988p VS 1987

	1988p ($)	1987 ($)	% Change
Kenora	17,764,341	23,518,580	-24.5
Patricia	37,491,206	35,438,121	5.8
Red Lake	20,798,349	31,051,067	-33.0
Thunder Bay	87,112,100	116,270,156	-25.1
Porcupine	96,195,771	107,719,132	-10.7
Sault Ste Marie	144,529,250	113,058,723	27.8
Larder Lake	114,847,836	89,444,036	28.4
Sudbury	108,279,830	98,818,916	9.6
Southern Ontario	11,318,009	6,603,103	71.4
Province Wide	7,837,741	9,857,654	-20.5
Total Expenditure:	646,174,433	631,779,488	2.3

Source: Information and Statistics Section, MNDM

EXPLORATION AND DEVELOPMENT EXPENDITURES IN ONTARIO PRECIOUS METALS VS BASE METALS



Source: Information & Statistics Section
Ministry of Northern development & Mines

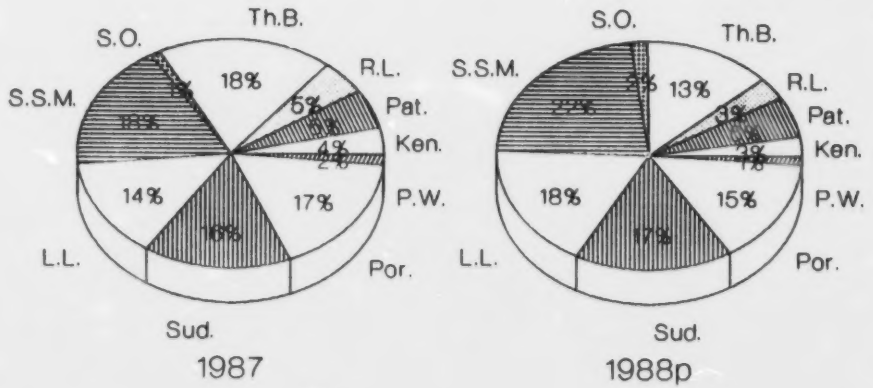
EXPLORATION AND DEVELOPMENT EXPENDITURES IN ONTARIO
(IN CURRENT DOLLARS)
1981 - 1988p

	PRECIOUS METALS				BASE METALS			
	GENERAL EXPLORATION	MINESITE EXPLORATION	MINESITE DEVELOPMENT	TOTAL	GENERAL EXPLORATION	MINESITE EXPLORATION	MINESITE DEVELOPMENT	TOTAL
	($)	($)	($)	($)	($)	($)	($)	($)
1988p	248,558,358	39,958,493	134,034,786	419,255,837	23,076,115	9,641,463	100,544,846	133,262,424
1987*	216,912,847	37,737,394	140,709,301	395,359,542	19,792,346	7,843,164	115,500,855	143,136,365
1986	84,177,343	18,339,087	69,705,941	172,222,371	11,885,830	6,000,260	89,572,705	107,458,795
1985	64,866,703	4,621,874	74,264,015	143,752,592	14,392,799	7,151,703	47,000,400	68,544,902
1984	46,173,739	5,600,855	92,897,540	144,672,134	6,477,514	3,523,929	37,955,274	47,956,717
1983	31,177,917	9,452,208	39,670,348	80,300,473	16,780,123	5,107,503	51,227,758	73,115,384
1982	15,473,725	4,220,587	13,913,557	33,607,869	13,267,004	2,732,349	31,818,413	47,817,766
1981	15,773,310	2,871,214	8,474,224	27,118,748	20,047,790	4,736,654	53,382,582	78,167,026

* Revised

Source: Information and Statistics Section, MNDM

TOTAL EXPLORATION AND DEVELOPMENT EXPENDITURES IN ONTARIO BY MINING DIVISION



Source: Information & Statistics Section
Ministry of Northern Development & Mines

TOTAL EXPLORATION AND DEVELOPMENT
EXPENDITURES IN ONTARIO
1988p VS 1987

	1988p ($)	1987 ($)	% Change
Diamond Drilling	163,854,129	172,699,619	-5.1
Geochemical	11,391,129	11,325,982	0.6
Geology	24,289,295	27,934,053	-13.0
Geophysical	12,726,687	14,460,023	-12.0
Airborne Geo.	4,535,509	4,871,011	-6.9
Rock Work	79,154,109	42,694,847	85.4
Shafts	7,101,413	2,804,480	153.2
Drifts, Crosscuts	164,664,958	164,931,022	-0.2
Raises, Declines	44,771,116	74,444,495	-39.9
Stripping	8,609,296	9,129,630	-5.7
Other Exp. & Dev.	125,076,792	106,484,326	17.5
Total Expenditure:	646,174,433	631,779,488	2.3

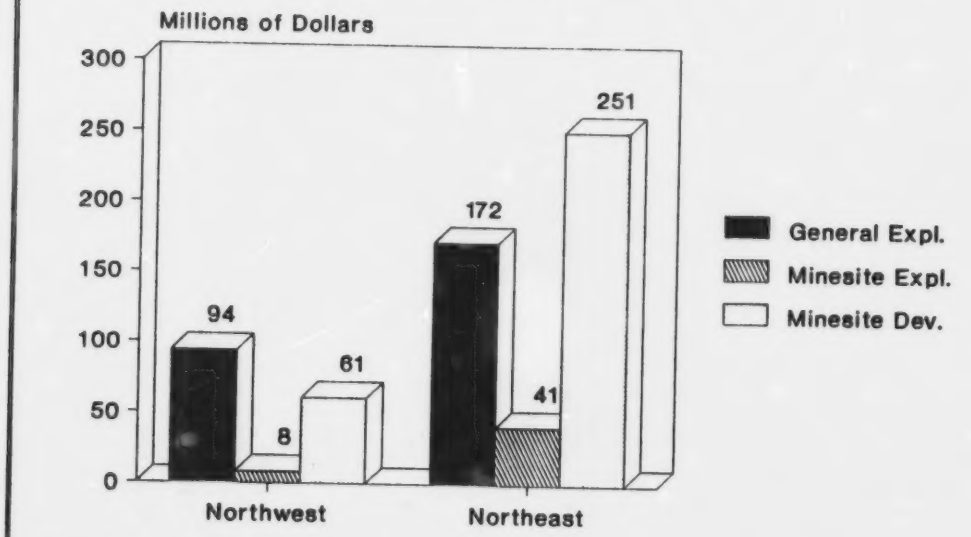
Source: Information and Statistics Section, MNDM

TOTAL EXPLORATION AND DEVELOPMENT
EXPENDITURES IN ONTARIO
1988p

	TOTAL	GENERAL EXPLORATION	MINESITE EXPLORATION	MINESITE DEVELOPMENT
	($)	($)	($)	($)
Diamond Drilling	163,854,129	124,965,075	17,060,581	21,828,473
Geochemical	11,391,129	10,625,198	765,931	
Geology	24,289,295	22,987,924	1,301,371	
Geophysical	12,726,687	12,403,760	322,927	
Airborne Geo.	4,535,509	4,520,456	15,053	
Rock Work	79,154,109	56,183,378	22,970,731	
Shafts	7,101,413			7,101,413
Drifts, Crosscuts	164,664,958			164,664,958
Raises, Declines	44,771,116			44,771,116
Stripping	8,609,296			8,609,296
Other Exp. & Dev.	125,076,792	50,614,192	7,480,562	66,982,038
Total Expenditure:	646,174,433	282,299,983	49,917,156	313,957,294

Source: Information and Statistics Section, MNDM

EXPLORATION AND DEVELOPMENT EXPENDITURES IN NORTHWEST & NORTHEAST REGIONS 1988p



Source: Information & Statistics Section
Ministry of Northern Development & Mines

GENERAL EXPLORATION EXPENDITURES
IN NORTHWEST REGION
1988p

	KENORA	PATRICIA	RED LAKE	THUNDER BAY	TOTAL
	($)	($)	($)	($)	($)
Diamond Drilling	5,750,831	8,697,682	7,709,790	22,569,637	44,727,940
Geochemical	667,807	934,599	360,243	3,427,027	5,389,676
Geology	1,243,681	3,008,694	1,615,070	4,138,837	10,006,282
Geophysical	816,568	1,376,933	572,823	2,486,670	5,252,994
Airborne Geo.	332,050	504,453	108,318	740,102	1,684,923
Rock Work	5,072,143	87,271	312,631	5,647,227	11,119,272
Other	2,475,499	2,061,257	1,796,649	9,613,516	15,946,921
Total Expenditure:	16,358,579	16,670,889	12,475,524	48,623,016	94,128,008

Source: Information and Statistics Section, MNDM

GENERAL EXPLORATION EXPENDITURES
IN NORTHEAST REGION
1988p

	LARDER LAKE	PORCUPINE	S. S. MARIE	SUDBURY	TOTAL
	($)	($)	($)	($)	($)
Diamond Drilling	30,575,871	19,387,050	14,731,088	10,642,523	75,336,532
Geochemical	1,048,060	655,749	1,529,947	891,262	4,125,018
Geology	3,970,982	3,123,156	2,075,310	1,043,751	10,213,199
Geophysical	2,521,258	1,614,954	1,254,177	765,089	6,155,478
Airborne Geo.	348,875	883,938	217,287	510,976	1,961,076
Rock Work	24,652,502	12,903,228	5,432,284	137,763	43,125,777
Other	9,866,876	10,422,344	9,569,148	1,029,778	30,888,146
Total Expenditure:	72,984,424	48,990,419	34,809,241	15,021,142	171,805,226

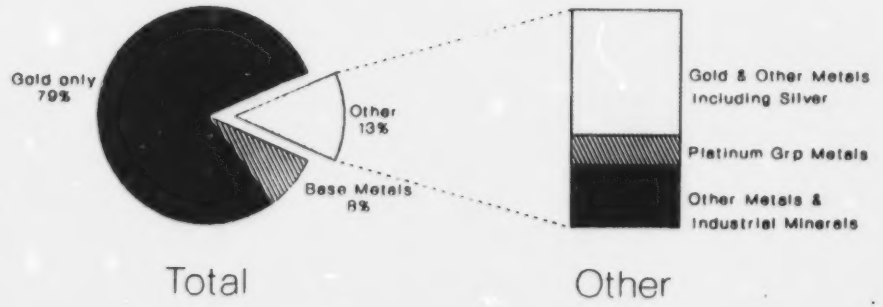
Source: Information and Statistics Section, MNDM

GENERAL EXPLORATION EXPENDITURES
IN SOUTHERN REGION AND UNDEFINED REGION
1988p

	SOUTHERN ONTARIO	UNDEFINED REGION	TOTAL
	($)	($)	($)
Diamond Drilling	3,603,340	1,297,263	4,900,603
Geochemical	548,123	562,381	1,110,504
Geology	1,444,641	1,323,802	2,768,443
Geophysical	133,451	861,837	995,288
Airborne Geo.	0	874,457	874,457
Rock Work	1,881,205	57,124	1,938,329
Other	918,248	2,860,877	3,779,125
Total Expenditure:	8,529,008	7,837,741	16,366,749

Source: Information and Statistics Section, MNDM

GENERAL EXPLORATION EXPENDITURES BY METAL OR MINERAL SOUGHT IN ONTARIO 1988p



Source: Information & Statistics Section
Ministry of Northern Development & Mines

MINESITE EXPLORATION EXPENDITURES
IN NORTHWEST REGION
1988p

	KENORA	PATRICIA	RED LAKE	THUNDER BAY	TOTAL
	($)	($)	($)	($)	($)
Diamond Drilling	498,681	2,167,839	154,566	2,167,039	4,988,125
Geochemical	0	110,283	23,148	2,900	136,331
Geology	59,678	59,076	34,498	56,300	209,552
Geophysical	0	136,537	990	179,900	317,427
Airborne Geo.	0	0	53	0	53
Rock Work	770,523	48,046	0	0	818,569
Other	76,880	227,615	126,105	1,496,717	1,927,317
Total Expenditure:	1,405,762	2,749,396	339,360	3,902,856	8,397,374

Source: Information and Statistics Section, MNDM

MINESITE EXPLORATION EXPENDITURES
IN NORTHEAST REGION
1988p

	LARDER LAKE	PORCUPINE	S S MARIE	SUDBURY	TOTAL
	($)	($)	($)	($)	($)
Diamond Drilling	3,579,021	1,967,781	3,527,000	2,794,084	11,867,886
Geochemical	0	0	618,600	0	618,600
Geology	495,685	270,134	245,000	0	1,010,819
Geophysical	0	0	5,500	0	5,500
Airborne Geo.	0	0	0	0	0
Rock Work	556,539	2,866,828	17,168,000	1,560,795	22,152,162
Other	2,522,928	2,183,804	562,050	278,833	5,547,615
Total Expenditure:	7,154,173	7,288,547	22,126,150	4,633,712	41,202,582

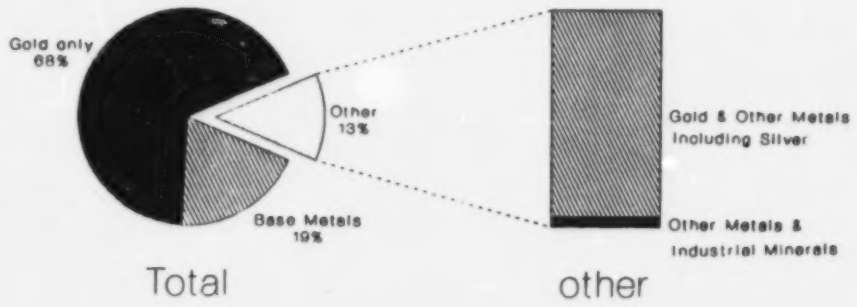
Source: Information and Statistics Section, MNDM

MINESITE EXPLORATION EXPENDITURES
IN SOUTHERN REGION
1988p

	SOUTHERN ONTARIO
	($)
Diamond Drilling	204,570
Geochemical	11,000
Geology	81,000
Geophysical	0
Airborne Geo.	15,000
Rock Work	0
Other	5,630
Total Expenditure:	317,200

Source: Information and Statistics Section, MNDM

MINESITE EXPLORATION EXPENDITURES BY METAL OR MINERAL SOUGHT IN ONTARIO 1988p



Source: Information & Statistics Section
Ministry of Northern Development & Mines

MINESITE DEVELOPMENT EXPENDITURES
IN NORTHWEST REGION
1988p

	KENORA	PATRICIA	RED LAKE	THUNDER BAY	TOTAL
	($)	($)	($)	($)	($)
Diamond Drilling	0	1,204,751	1,732,425	1,824,334	4,761,510
Shaft	0	4,305,570	0	0	4,305,570
Drifts and Crosscuts	0	7,119,065	3,636,873	20,572,094	31,328,032
Raises and Declines	0	1,666,374	1,884,621	8,572,704	12,123,699
Stripping	0	0	0	0	
Other	0	3,775,161	729,546	3,617,096	8,121,803
Total Expenditure:	0	18,070,921	7,983,465	34,586,228	60,640,614

Source: Information and Statistics Section, MNDM

MINESITE DEVELOPMENT EXPENDITURES
IN NORTHEAST REGION
1988p

	LARDER LAKE	PORCUPINE	S S MARIE	SUDBURY	TOTAL
	($)	($)	($)	($)	($)
Diamond Drilling	3,327,453	2,795,809	5,790,111	5,115,750	17,029,123
Shaft	0	0	2,090,000	705,843	2,795,843
Drifts and Crosscuts	10,200,772	21,184,243	64,077,706	37,874,205	133,336,926
Raises and Declines	2,163,937	7,214,219	10,470,194	11,799,067	31,647,417
Stripping	3,824,671	0	141,759	4,246,566	8,212,996
Other	15,192,406	8,722,534	5,024,089	28,883,545	57,822,574
Total Expenditure:	34,709,239	39,916,805	87,593,859	88,624,976	250,844,879

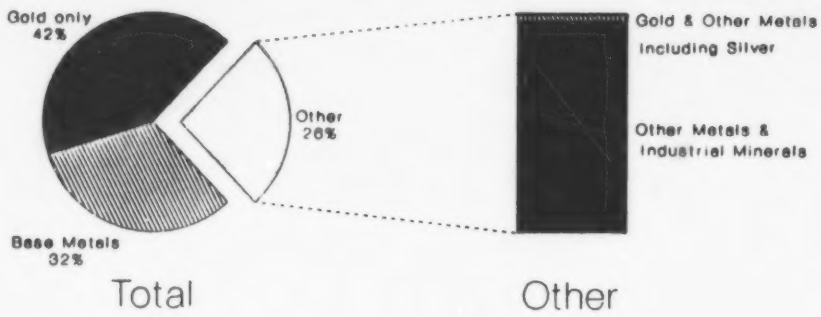
Source: Information and Statistics Section, MNDM

MINESITE DEVELOPMENT EXPENDITURES
IN SOUTHERN REGION
1988p

	SOUTHERN ONTARIO
	($)
Diamond Drilling	37,840
Shaft	0
Drifts and Crosscuts	0
Raises and Declines	1,000,000
Stripping	396,300
Other	1,037,661
Total Expenditure:	2,471,801

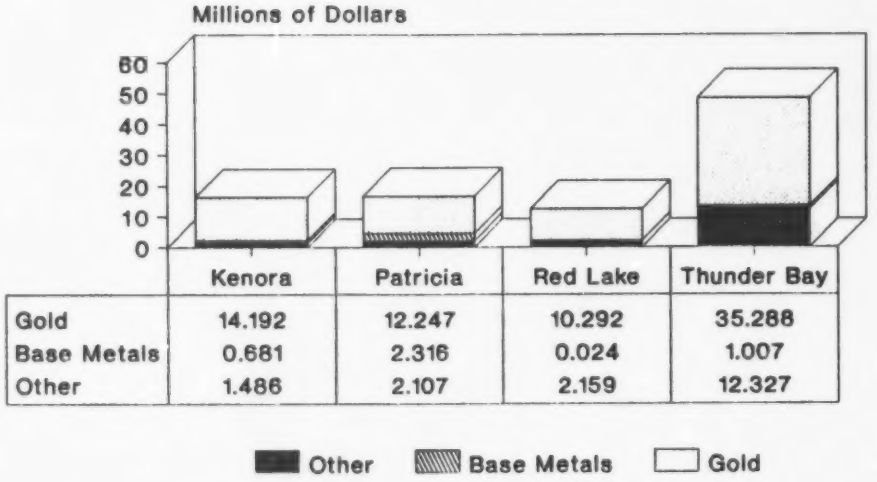
Source: Information and Statistics Section, MNDM

MINESITE DEVELOPMENT EXPENDITURES BY METAL OR MINERAL SOUGHT IN ONTARIO 1988p



Source: Information & Statistics Section
Ministry of Northern Development & Mines

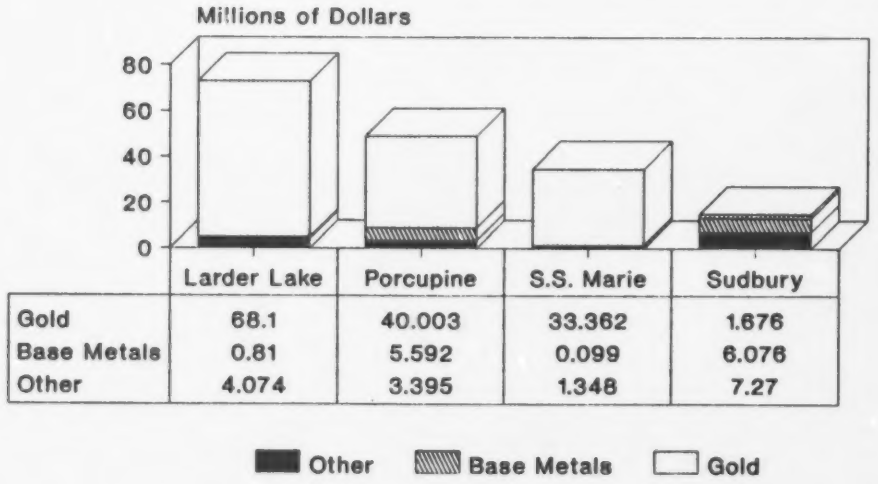
GENERAL EXPLORATION EXPENDITURES BY METAL AND MINERAL SOUGHT AND BY MINING DIVISION, 1988p



	Kenora	Patricia	Red Lake	Thunder Bay
Gold	14.192	12.247	10.292	35.288
Base Metals	0.681	2.316	0.024	1.007
Other	1.486	2.107	2.159	12.327

Source: Information & Statistics Section
Ministry of Northern Development & Mines

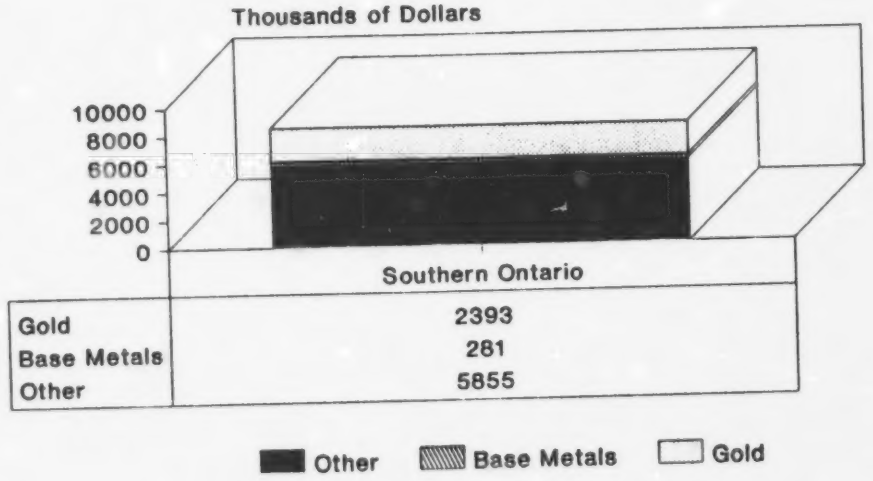
GENERAL EXPLORATION EXPENDITURES BY METAL AND MINERAL SOUGHT AND BY MINING DIVISION, 1988p



	Larder Lake	Porcupine	S.S. Marie	Sudbury
Gold	68.1	40.003	33.362	1.676
Base Metals	0.81	5.592	0.099	6.076
Other	4.074	3.395	1.348	7.27

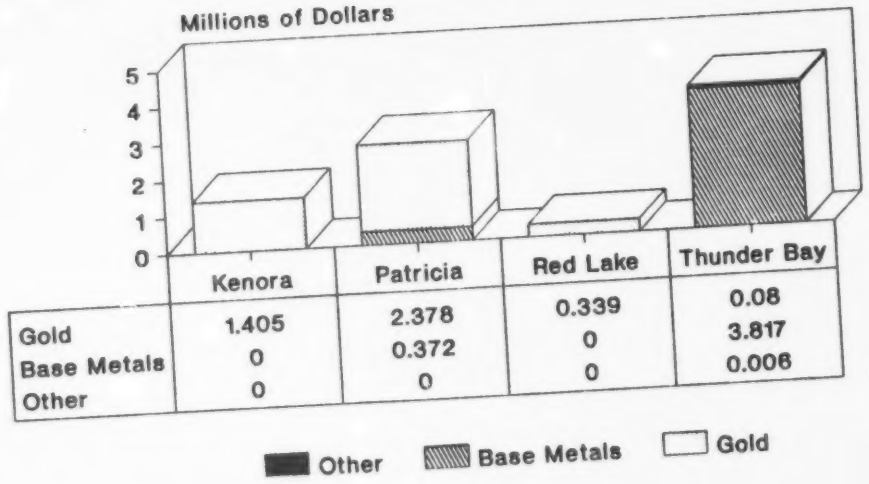
Source: Information & Statistics Section
Ministry of Northern Development & Mines

GENERAL EXPLORATION EXPENDITURES BY METAL AND MINERAL SOUGHT AND BY MINING DIVISION, 1988p



Source: Information & Statistics Section
Ministry of Northern Development & Mines

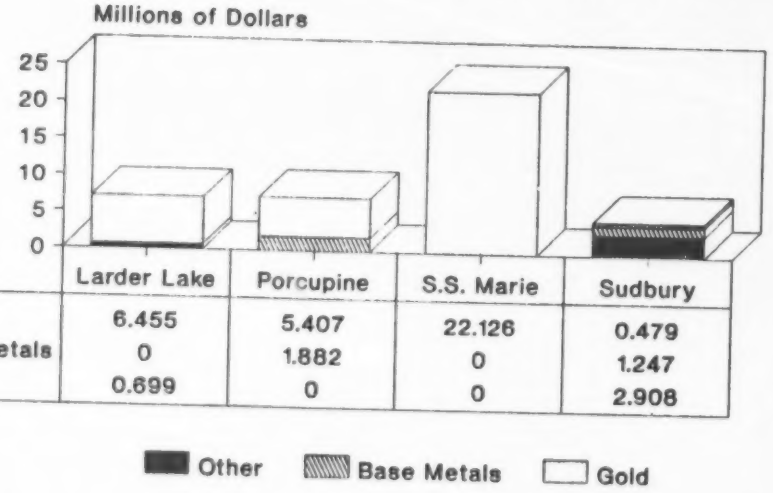
MINESITE EXPLORATION EXPENDITURES BY METAL AND MINERAL SOUGHT AND BY MINING DIVISION, 1988p



	Kenora	Patricia	Red Lake	Thunder Bay
Gold	1.405	2.378	0.339	0.08
Base Metals	0	0.372	0	3.817
Other	0	0	0	0.006

Source: Information & Statistics Section
Ministry of Northern Development & Mines

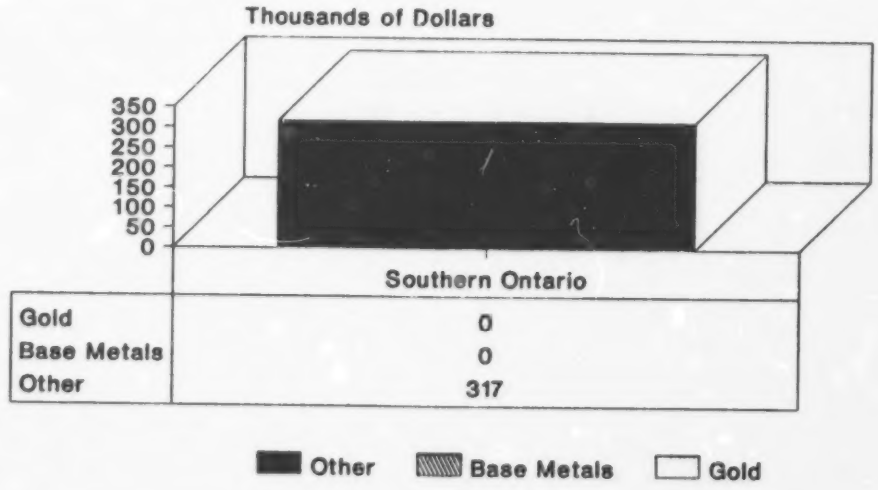
MINESITE EXPLORATION EXPENDITURES BY METAL AND MINERAL SOUGHT AND BY MINING DIVISION, 1988p



	Larder Lake	Porcupine	S.S. Marie	Sudbury
Gold	6.455	5.407	22.126	0.479
Base Metals	0	1.882	0	1.247
Other	0.699	0	0	2.908

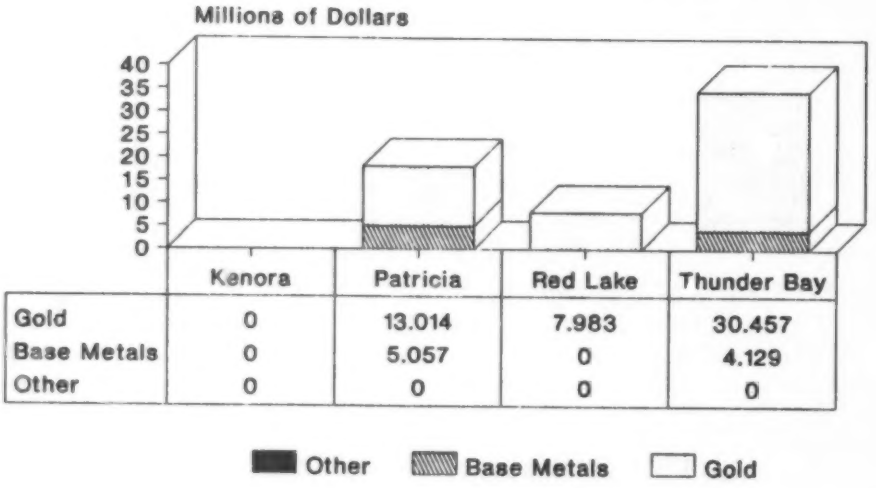
Source: Information & Statistics Section
Ministry of Northern Development & Mines

MINESITE EXPLORATION EXPENDITURES BY METAL AND MINERAL SOUGHT AND BY MINING DIVISION, 1988p



Source: Information & Statistics Section
Ministry of Northern Development & Mines

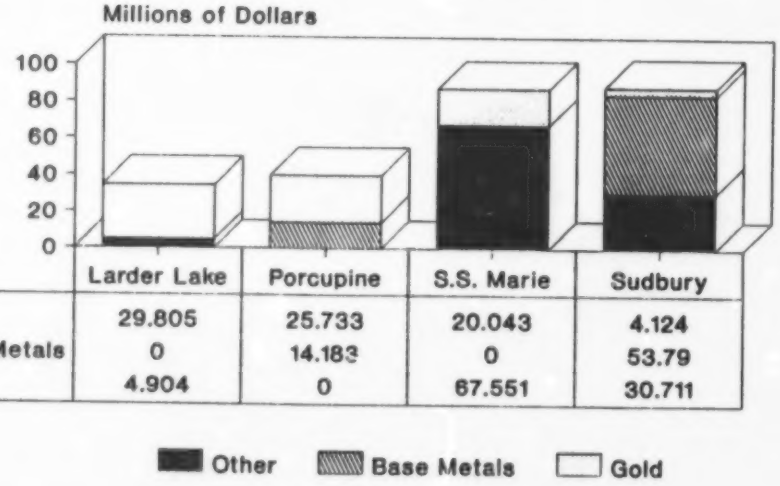
MINESITE DEVELOPMENT EXPENDITURES BY METAL AND MINERAL SOUGHT AND BY MINING DIVISION, 1988p



	Kenora	Patricia	Red Lake	Thunder Bay
Gold	0	13.014	7.983	30.457
Base Metals	0	5.057	0	4.129
Other	0	0	0	0

Source: Information & Statistics Section
Ministry of Northern Development & Mines

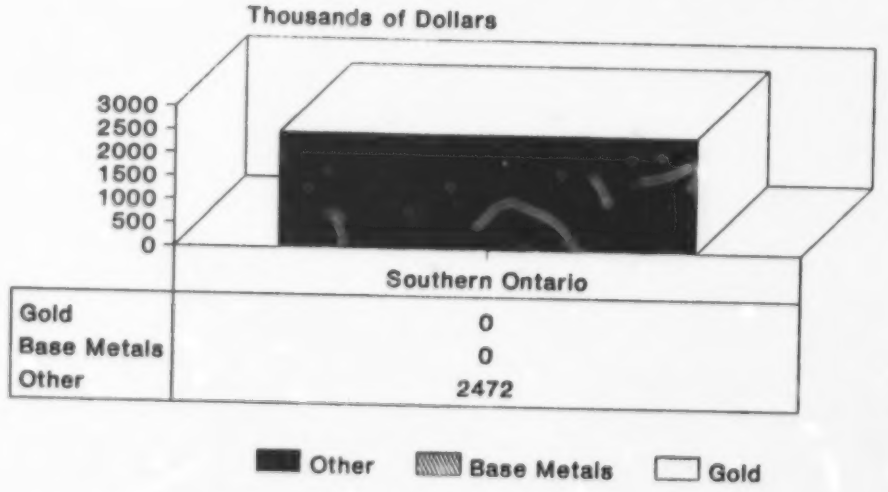
MINESITE DEVELOPMENT EXPENDITURES BY METAL AND MINERAL SOUGHT AND BY MINING DIVISION, 1988p



	Larder Lake	Porcupine	S.S. Marie	Sudbury
Gold	29.805	25.733	20.043	4.124
Base Metals	0	14.183	0	53.79
Other	4.904	0	67.551	30.711

Source: Information & Statistics Section
Ministry of Northern Development & Mines

MINESITE DEVELOPMENT EXPENDITURES BY METAL AND MINERAL SOUGHT AND BY MINING DIVISION, 1988p



Source: Information & Statistics Section
Ministry of Northern Development & Mines

LIST OF PRODUCING MINES IN ONTARIO

1989 - 1990

NAME OF MINES	HEAD OFFICE ADDRESS	MINE OFFICE ADDRESS
METAL MINES:		
GOLD		
American Barrick Resources -Holt-McDermott Mine	24 Hazelton Ave. Toronto, Ontario, M5R 2E2	P.O. Box 278, Kirkland Lake, Ontario, P2N 3H7
Ateba Mines Inc.	Ste. 1400, 22 Front St. W. Toronto, Ontario, M5J 1C4	P.O. Box 65, Beardmore, Ontario, P0T 1G0
Bond Gold canada Inc. -Golden Patricia Mine	Ste. 1100, 20 Adelaide E. Toronto, Ontario, M5C 2T6	P.O. Bag 4000, Sioux Lookout, Ontario, P0V 2T0
Canamax Resources Inc. -Bell Creek Mine -Kremzar Mine	Ste. 1100, 181 University Ave. Toronto, Ontario, M5H 3M7	P.O. Box 550, Porcupine, Ontario, P0N 1C0 P.O. Box 766, Wawa, Ontario, P0S 1K0
Citadel Gold Mines Inc. (4)	Ste. 402, 67 Yonge St. Toronto, Ontario, M5E 1J8	P.O. Box 54, Surluga Rd. Wawa, Ontario, P0S 1K0
Dickenson Mines Ltd. -Arthur W. White Mine	Ste. 2600, 130 Adelaide St. W. Toronto, Ontario, M5H 3P5	Balmerton, Ontario, P0V 1C0
Eastmaque Gold Mines Ltd.	Ste. 1320, 885 W. Georgia St. Vancouver, B.C. V6C 3E8	P.O. Box 37, Kirkland Lake, Ontario, P2N 3M6
ERG Resources Inc. -Timmins Tailings Project	Ste. 1601, 95 Wellington St. W. Toronto, Ontario, M5J 2N7	P.O. Bag 2015, Timmins, Ontario, P4N 8H3
Falconbgidge Gold Corp. -Hoyle Pond Mine -Owl Creek Mine	P.O. Box 40, Commerce Ct. W. Toronto, Ontario, M5L 1B4	P.O. Bag 2002, Timmins, Ontario, P4N 7K1

NAME OF MINES	HEAD OFFICE ADDRESS	MINE OFFICE ADDRESS
GOLD (cont'd)		
Giant Yellowknife Mines Ltd.	Ste. 1601, 95 Wellington St. W	
-Timmins Division	Toronto, Ontario, M5J 2N7	P.O. Bag 2010, Timmins, Ontario, P4N 7X7
-No. 1 Mine		" "
-No. 1 Mine (NOS. 3 & 4 Pits)		" "
-Schumacher Mine		" "
-Ross Mine		" "
-Timmins Surface Pit		" "
-Deinite Pit		" "
Golden Shield Resources Ltd.	Ste. 904, 121 Richmond St. W	
-Barber-Larder Open Pit (1)	Toronto, Ontario, M5H 2K1	Virginiatown, Ontario, P0k 1X0
-Kerr Mine Div.		" "
Hemlo Gold Mines Inc.	4 King St. W.	
-Golden Giant Mine	Toronto, Ontario, M5H 3X2	P.O. Box 40, Marathon, Ontario, P0T 2E0
Lac Minerals Ltd.	Ste. 2105, N. Tower, R.B. Plaza	
-Macassa Div.	Toronto, Ontario, M5J 2J4	P.O. Box 550, Kirkland Lake, Ontario, P2N 3J7
-Lake Shore Tailing Projects		P.O. Box 670, Kirkland Lake, Ontario, P2N 3K2
Lake Asbestos of Canada Ltd.	P.O. Box 130, Porcupine, Ontario, P0N 1C0	
-Aquarious Mine		same as Head Office
McBean Mine (2)	Dobie, Ontario, P0K 1B0	Dobie, Ontario, P0K 1B0
Muscocho Explorations Ltd.	36 Toronto St., Toronto, Ontario, M5C 2C5	
-Magino Gold Mine		P.O. Box 209, Dubreuilville, Ontario, P0S 1B0
-Magnacon Project (3)		P.O. Box 61, Wawa, Ontario, P0S 1K0
Noramco Mining Corp. (5)	Ste. 900, 999 West Hastings St.	
-Golden Rose Mine	Vancouver, B.C. V6C 2W2	General Del. River Valley, Ontario, P0H 2C0
Orofino Resources Ltd.	1 First Canadian Place	
-Scadding Mine	Toronto, Ontario, M5X 1C7	RR 1, Kukagami Lake Rd. Wahnapitae, Ont. P0M 3C0

NAME OF MINES	HEAD OFFICE ADDRESS	MINE OFFICE ADDRESS
GOLD (cont'd)		
Placer Dome Inc.	Ste. 3500, IBM Tower, T.D Centre	
-Campbell Red Lake Mine	Toronto, Ontario, M5K 1N3	P.O. Box 10, Balmertown, Ontario, P0K 1C0
-Dome Mine		Box 70, South Porcupine, Ontario, P0N 1H0
-Detour Lake Mine		130 Wilson Ave., Timmins, Ontario, P4N 2S9
-Donna Lake Mine		P.O. Box 338 Pickle Lake, Ontario, P0V 3A0
Renable Gold Mines Ltd.	Ste. 1900, 120 Adelaide St. W. Toronto, Ontario, M5H 1T1	P O. Box 55, Missanable, Ontario, P0M 2H0
St. Andrews Goldfields Ltd. (3)	166 Pearl St Toronto, Ontario, M5H 1L3	P O Box 449, Matheson, Ontario, P0K 1N0
Teck-Corona Operating Corp.	Ste. 7000, 1 First Canadian Place	
-David Bell Mine	Toronto, Ontario, M5X 1G9	P.O. Bag 11, Marathon, Ontario, P0T 2E0
Williams Operating Corp.	P.O. Box 170, First Canadian Place	
-Page Williams Mine	Toronto, Ontario, M5X 1G9	P.O. Bag 500, Marathon, Ontario, P0T 2E0
IRON		
The Adams Mine	P.O. Box 877, Kirkland Lake, Ontario, P2N 3K7	same as Head Office
The Algoma Steel Corp. Ltd.	503 Queen St. E.	
-Algoma Ore Div.	Sault Ste Marie, Ontario, P6A 5P2	Wawa, Ontario, P0S 1K0
Sherman Mine-Joint Venture	P.O. Box 217, Temagami, Ontario, P0H 2H0	same as Head Office
MAGNESIUM & CALCIUM		
Timminco Metals	130 Adelaide St. W.	
-A Division of Timminco Ltd.	Toronto, Ontario, M5W 1G5	Haley, Ontario, K0J 1Y0

NAME OF MINES	HEAD OFFICE ADDRESS	MINE OFFICE ADDRESS
URANIUM		
Denison Mines Ltd.	P.O. Box 40, Royal Bank Plaza Toronto, Ontario, M5J 2K2	P.O. Box B-2600, Elliot Lake, Ontario, P5A 2K2
Rio Algom Ltd.	120 Adelaide St W.	
-Panel Mine	Toronto, Ontario, M5H 1W5	P.O. Box 1500, Elliot Lake, Ontario, P5A 2K1
-Stanleigh Mine		" "
-Quirke Mine		" "
SILVER		
Agnico-Eagle Mines Ltd.	Ste. 2302, 401 Bay St	
-Castle Mine	Toronto, Ontario, M5H 2Y4	P.O. Box 140, Cobalt, Ontario, P0J 1C0
-Temiskaming Mine		" "
-Langis Mine		" "
Hellens-Eplett Mining Inc. (6)	Ste. 1101, 10 King St. E. Toronto, Ontario, M5C 1C3	P.O. Box 319, Cobalt, Ontario, P0J 1R0
COPPER-LEAD-ZINC		
Falconbridge Ltd.	P.O. Box 40, Commerce Crt. W.	
-Kidd Creek No. 1 Mine Undg	Toronto, Ontario, M5L 1B4	P.O. Box 2002, Timmins, Ontario, P4N 7K1
-Kidd Creek No. 2 Mine Undg		" "
Mattabi Mines Ltd.	P.O. Box 45, Commerce Crt. W. Toronto, Ontario, M5L 1B6	P.O. Box 190, Ignace, Ontario, P0T 2C0
Minnova Inc.	P.O. Box 91, Commerce Crt. W.	
-Winston Lake Div.	Toronto, Ontario, M5L 1C7	P.O. Bag 2, Schreiber, Ontario, P0T 2S0
Noranda Minerals Inc.	P.O. Box 45, Commerce Crt. W.	
-Lyon Lake Div.	Toronto, Ontario, M5L 1B6	P.O. Box 190, Ignace, Ontario, P0T 2C0
-Geco Div.		P.O. Box 100, Manitouadge, Ontario, P0T 2C0 "

NAME OF MINES	HEAD OFFICE ADDRESS	MINE OFFICE ADDRESS
NICKEL-COPPER		
Falconbridge Ltd.	P.O. Box 40, Commerce Crt. W.	
-East Mine	Toronto, Ontario, M5L 1B4	Falconbridge, Ontario, P0M 1S0
-No. 5 Shaft Open Pit		" "
-No. 1 Shaft Open Pit		" "
-Lockerby Mine		Whitefish, Ontario, P0M 3E0
-Fraser Mine		Onaping, Ontario, P0M 2K0
-Strathcona Mine		Onaping, Ontario, P0M 2R0
-Onaping Mine		Onaping, Ontario, P0M 3A0
-Craig Mine		Onaping, Ontario, P0M 2R0
Inco Ltd.	P.O Box 44, Royal Trust Tower	
-Clarabelle Open Pit	T.D. Centre, Toronto, Ontario, M5K 1N4	Copper Cliff, Ontario, P0M 1N0
-Copper Cliff North Mine		" "
-Copper Cliff South Mine		" "
-Creighton Mine, #3 & #9		Creighton, Ontario, P0M 1N0
-Garson Extension		Garson, Ontario, P0M 1V0
-Frood Mine		Copper Cliff, Ontario, P0M 1N0
-Levack Mine		Levack, Ontario, P0M C20
-Little Stobie Mine		Copper Cliff, Ontario, P0M 1N0
-McCreedy West Mine		Levack, Ontario, P0M 2C0
-Stobie Mine		Copper Cliff, Ontario, P0M 1N0
-Crean Hill Mine		Creighton, Ontario, P0M 1N0
-Coleman Mine		Levack, Ontario, P0M 2C0
-Whistle Mine		Capreol, Ontario, P0M 1H0
-Tam "O" Shanter		Lively, Ontario, P0M 2E0

NAME OF MINES	HEAD OFFICE ADDRESS	MINE OFFICE ADDRESS
NON-METAL MINES:		
AMETHYST		
Ontario Gem. Co. Ltd.	P.O. Box 130, Geraldton, Ontario, P0T 1M0	P.O Box 2120, Thunder Bay, Ontario, P7B 5E7
Precious Purple Gem. Ltd.	P.O. Box 832, Thunder Bay, Ontario, P7C 4X7	same as Head Office
BARITE		
Extender Minerals of Canada Ltd.	Ste. 253, 5945 Airport Rd. Mississauga, Ontario, L4V 1R9	Matachewan, Ontario, P0K 1M0
GYPSUM		
CGC Inc.	777 Bay St. Toronto, Ontario, M5W 1K8	P.O. Box 99, Hagersville, Ontario, N0A 1H0
Domtar Inc. -Caledonia #3 Mine	395 De Maisonneuve Blvd. W. Montreal, Quebec, H3A 1L6	P.O. Box 250, Caledonia, Ontario, N0A 1A0
Westroc Industries Ltd.	2424 Lakeshore Hwy. W. Mississauga, Ontario, L5J 1K4	RR #1, Drumbo, Ontario, N0J 1G0
NEPHELINE SYENITE		
Indusmin -Div. of Falconbridge	365 Bloor St. E. Toronto, Ontario, M4W 3L4	P.O. Box 2000, Havelock, Ontario, K0L 1Z0
PEAT		
Atkins & Durbrow Ltd.	Ste. 402, 1755 W. Broadway, Vancouver, B.C. V6J 4S5	P.O. Box 55, Port Colborne, Ontario, L3K 5V7

NAME OF MINES	HEAD OFFICE ADDRESS	MINE OFFICE ADDRESS
QUARTZ		
Indusmin-Div. of Falconbridge	365 Bloor St. E. Toronto, Ontario, M4W 3L4	Badgeley Island, Killarney, Ontario, P0M 2A0
Roseval Silica Inc.	2008 Lasalle Blvd. Sudbury, Ontario, P3A 2A5	Penhorwood Twp. Timmins, Ontario, P4N 7J5
SALT MINES		
The Canadian Salt Co. Ltd.	755 St. Jean Blvd, 7th Floor Pointe-Claire, Quebec, H9R 5M9	200 Morton Dr. Windsor, Ontario, N9C 3Y7
Domtar Inc.-Domtar Chemicals Corp.	1136 Matheson Blvd. Mississauga, Ontario, L4W 2V4	P. Box 370, Goderich, Ontario, N7A 3Y9
BRINING WELLS		
General Chemical Canada Ltd. -Amherstburg Plant	201 City Centre Dr. Mississauga, Ontario, L5B 3A3	P.O. Box 2000, Amherstburg, Ontario, N9V 2Z6
The Canadian Salt Co. Ltd.	755 St. Jean Blvd, 7th Floor Pointe-Claire, Quebec, H9R 5M9	200 Morton Dr. Windsor, Ontario, N9C 3Y9
Domtar Inc. Domtar Chemicals Group -Sifto Salt Div.	1136 Matheson Blvd. Mississauga, Ontario, L4W 2V4	P.O. Box 100, Goderich, Ontario, N7A 3Y5
Dow Chemicals Canada Inc. -Sarnia Brine Wells	P.O. Box 1012, Sarnia, Ontario, N7T 7M1	same as Head Office
SERPENTINE FILLER		
Hedman Resources Ltd.	P.O. Box 590, Timmins, Ontario, P4N 7E7	Matheson, Ontario, P0K 1N0

NAME OF MINES	HEAD OFFICE ADDRESS	MINE OFFICE ADDRESS
TALC		
Canadian Talc Industries Ltd.	Postal Drawer 'A' P.O. Box 250, Madoc, Ontario, K0k 2K0	same as Head Office
Luzenac Inc.	1017 North Service Rd. W. Ste. 14, Oakville, Ontario, L6M 2G2	P.O. Box 1245, Timmins, Ontario, P4N 7J5
TREMOLITE		
Commercial Industrial Minerals Ltd.	Ste. 918, 130 Adelaide St. W. Toronto, Ontario, M5H 3P5	435 Exeter Rd. London, Ontario, M6E 2Z3
QUARRY (CALCITE PRODUCTS)		
Steep Rock Resources Inc.	Ste. 302, 45 Sheppard Ave. E. North York, Ontario, M2N 5W9	P.O. Box 245, Perth, Ontario, K7H 3E4

Note:
(1) Bulk sampling only; closed Dec. 1988
(2) No mining: milling bulk samples only
(3) Production to commence July, 1989
(4) Test milling only
(5) Closed Sept. 1989
(6) Operations ceased August 1988

Source: Information and Statistics Section, MNDM